PEWETA

display
measure
distribute
record
TIME

Catalogue 2024

As of January 1, 2024

Perfectly connected

- PEWETA® *DCFport24* telegram
- PEWETA® *AirPort24* RC telegram
- NTP technology

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Indoor
analog · digital
single face

Indoor Clocks

analog · digital · single face

Sensible, matter-of-fact clocks in an attractive, up-to-date design. In the office or the shop, the surgery or the lab, the reception area or the cafeteria, the conference room or the lounge – in all those places these clocks earn the term »outstandingly suitable«.

DCF77 Radio Controlled Wall Clock

Indoor
digital
single face

Type series
106

Time, date, temperature – everything at a single glance. And the price is right, too.

Case
■ Attractive, metallic silver coloured plastic case.
Protection grade IP 40 (EN 60 529).

LCD digital display
Extra large numerals provide for optimum readability of hours, minutes, and seconds, as well as date, abbreviated day of week (8 languages), indoor temperature, and humidity.
Manual time zone selection.
1.5 V battery operation.

DCF77
DCF77 radio controlled clock with fully automatic adjustment of time and date at initial operation as well as fully automatic change-over of summer/winter time.

51.**106**.093 shown

Technical data		
Case	colour	metallic silver
	material	plastic
	dimensions (W x H x D)	cir. 410 x 270 x 43 mm
Display	cipher height hour/minute	cir. 110 mm
	cipher height date, seconds, temperature	cir. 35 mm
	abbreviated day of week	cir. 35 mm
	reading distance (hour/minute) up to	cir. 20 m
Weight		cir. 1.1 kg
Batteries	not included	3 x 1.5 V (baby/LR14)

Type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**106**.093	**159.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Wall Clocks

Sensible, matter-of-fact wall clocks in an attractive design. And the price is right, too.

Case
- cir. 250 mm diameter
- cir. 300 mm diameter

plastic case, choice of white, black or matt silver.
Protection grade IP 40 (EN 60 529).

Front glass
Flat mineral glass.

Face
White face with black Arabic numerals or black DIN bar markings.

Hands
Black bar-type hour and minute hands, red second hand.

51.**130**.322 shown

Indoor
analog
single face

Type series
130

Type	Case diameter	Markings	Colour	Item No.	€ each
Quartz clock, soundless, battery operated 1.5 V	250 mm	numerals	white	44.**130**.211	**39.–**
		numerals	black	44.**130**.212	**39.–**
		numerals	silver	44.**130**.213	**39.–**
DCF77 radio controlled clock, battery operated 1.5 V	250 mm	numerals	white	51.**130**.211	**49.–**
		numerals	black	51.**130**.212	**49.–**
		numerals	silver	51.**130**.213	**49.–**
Quartz clock, soundless, battery operated 1.5 V	300 mm	numerals	white	44.**130**.311	**49.–**
		numerals	black	44.**130**.312	**49.–**
		numerals	silver	44.**130**.313	**49.–**
		DIN bars	black	44.**130**.322	**49.–**
DCF77 radio controlled clock, battery operated 1.5 V	300 mm	numerals	white	51.**130**.311	**59.–**
		numerals	black	51.**130**.312	**59.–**
		numerals	silver	51.**130**.313	**59.–**
		DIN bars	black	51.**130**.322	**59.–**

Quartz type
- creeping second hand
- soundless clockwork

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures.

51.**130**.311

51.**130**.312

51.**130**.313

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DCF77 Radio Controlled Wall Clocks
with creeping second hand, soundless

Indoor
analog
single face

Type series
131

Large, state-of-the-art DCF77 radio controlled wall clocks in an attractive design.
Soundless clockwork.
No ticking.

Case
- cir. 350 mm diameter

plastic case, choice of white, black or matt silver.
Protection grade IP 40 (EN 60529).

Front glass
Flat mineral glass.

Face
White face with black numerals or black DIN bar markings.

Hands
Black bar-type hour and minute hands, red second hand with creeping motion.

55.**131**.313 shown

Type	Markings	Case colour	Item No.	€ each
DCF77 radio controlled clock, soundless, battery operated 1.5 V	numerals	white	55.**131**.311	**75.–**
	numerals	matt silver	55.**131**.313	**75.–**
	DIN bars	black	55.**131**.322	**75.–**

All types
- creeping second hand
- soundless clockwork

55.**131**.311

55.**131**.322

DCF77 radio controlled clocks
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Wall Clocks

with “Railway Station Clock“ style second hand

Attractive wall clock in a classy aluminium case with a distinctive “Railway Station Clock” style second hand.

Case
- cir. 300 mm diameter

metal case, aluminium, matt brushed. Protection grade IP 40 (EN 60 529).

Front glass
Flat mineral glass.

Face
Typical “Railway Station Clock” style face with black DIN bar markings.

Hands
Black bar-type hour and minute hands, typical “Railway Station Clock” style second hand with “eye”.

51.**150**.325 shown

Type	Item No.	€ each
Quartz clock, soundless, battery operated 1.5 V	44.**150**.325	**63.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**150**.325	**79.–**

Quartz type
- creeping second hand
- soundless clockwork

Indoor
analog
single face

Type series
150

DCF77 radio controlled clocks
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DCF77 Radio Controlled Wall Clock

with insert displays indicating temperature and humidity

Indoor
analog
single face

Type series
161

Sensible wall clock in an attractive design – indications of temperature and humidity included!

Case
■ cir. 300 mm diameter
metal case, aluminium, matt brushed.
Protection grade IP 40 (EN 60 529).

Front glass
Flat mineral glass.

Face
White face with black Arabic numerals, LCD display for weather trend, temperature, and humidity.

Hands
Black bar-type hour and minute hands, red second hand.

51.**161**.315 shown

Type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**161**.315	**75.–**

DCF77 radio controlled clocks
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DCF77 Radio Controlled Wall Clocks
with LCD date display

Highly functional wall clocks in an attractive design – outstandingly suited for environments where date and time must be instantly readable free of doubt.

Case
■ cir. 300 mm diameter
plastic case, choice of black or matt silver.
Protection grade IP 40 (EN 60 529).

Front glass
Domed clear plastic.

Face
White with black Arabic numerals, very easy-to-read LCD display showing abbreviated day of week (in German only), month and day.

Hands
Black bar-type hour and minute hands, red second hand.

51.**170**.313 shown

Type	Colour	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	black	51.**170**.312	**64.–**
	silver	51.**170**.313	**69.–**

Indoor
analog
single face

Type series
170

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures.

51.**170**.312

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DCF77 Radio Controlled Wall Clocks

Indoor
analog
single face

Type series
190

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures.

Attractive, radio controlled wall clocks in an up-to-date design. One look tells you the time, accurate to the second.

Case
- cir. 200 mm diameter
- cir. 300 mm diameter
- cir. 400 mm diameter

metal case, aluminium, matt brushed. Protection grade IP 40 (EN 60529).

Front glass
Flat mineral glass.

Face
White face with black Arabic numerals.

Hands
Black bar-type hour and minute hands, red second hand.

51.**190**.205 shown

Type	Case diameter	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	200 mm	51.**190**.205	**59.–**
	300 mm	51.**190**.305	**79.–**
	400 mm	51.**190**.405	**105.–**

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Indoor
analog
single and
double faces

Indoor Clocks

analog · single and double faces

Demanding environments require high quality clocks, instantly readable from any direction and clear enough to avoid error or doubt even at long distances.

That's all the time you need ...

Wall Clocks
with printed bar markings

Indoor
analog
single face

Type series
230

Distinctive clocks with high-contrast faces – black bar markings on silver anodised aluminium faces.

Case
■ cir. 300 mm diameter metal case, enamelled black (RAL 9005), optionally stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) in a matted finish or metal case enamelled in colours (see list below).
Protection grade IP 40 (EN 60 529).

Front glass
Domed mineral glass as standard, shock-resistant Plexiglas® XT as an option.

Packaging (Option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
Metal face, enamelled silver anodised aluminium with a radial brush finish, high contrast black bar type markings.

Hands
Black bar-type hour and minute hands, black second hand.
No second hand on minute pulse 12... 60 V controlled slave clocks.

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

41.**230**.341 **-20**

41.**230**.341 shown

Clock type	Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**230**.341	**240.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**230**.341	**295.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**230**.341	**375.–**
Slave clock, minute pulse 12...60 V	71.**230**.341	**255.–**
Slave clock, minute/second pulse 12/24 V	72.**230**.341	**480.–**
Telegram slave clock, *DCFport24*	81.**230**.341	**280.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**230**.341	**384.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**230**.341	**444.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**230**.341	**429.–**

Options	Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**
Case custom enamelled	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**89.–**
Low reflectivity front glass	**-50**	**on request**
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**59.–**
Packaging against dust and spray (IP 54)	**-54**	**69.–**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
custom enamelled	**-10**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Wall Clocks
with elevated bar markings

A wall clock of marked exclusivity – distinctive prominent bar markings lend an individual and unmistakable appearance to this clock. The domed front glass may be removed at the customer´s discretion to bring the prominent face structure to even better view.

Case
■ cir. 300 mm diameter metal case, enamelled black (RAL 9005), optionally stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) in a matted finish or metal case enamelled in colours (see list below).
Protection grade IP 40 (EN 60 529).

Front glass
Domed shock-resistant Plexiglas® XT, may be removed at customer's discretion (resulting protection grade IP 30).

Face
Metal, silver anodised with radial brush finish, prominent black bar-type markings, elevated.

Hands
Black bar-type hour and minute hands, black second hand.

No second hand on minute pulse 12... 60 V controlled slave clocks.

41.**232**.441 shown

Clock type	Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**232**.441	**404.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**232**.441	**469.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**232**.441	**549.–**
Slave clock, minute pulse 12...60 V	71.**232**.441	**409.–**
Slave clock, minute/second pulse 12/24 V	72.**232**.441	**634.–**
Telegram slave clock, *DCFport24*	81.**232**.441	**444.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**232**.441	**548.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**232**.441	**608.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**232**.441	**593.–**

Options	Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**
Case custom enamelled	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**109.–**
Low reflectivity front glass	**-50**	**on request**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

41.**232**.441 **-20**

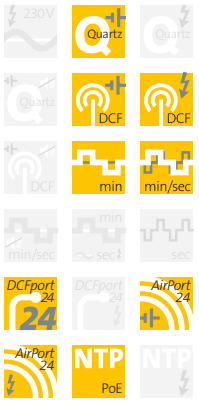
Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
single face

Type series
232



DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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Wall Clocks
single face

Indoor
analog
single face

Type series
240

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

Sophisticated clocks for demanding environments – a professional means of showing the time.

Case
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, as standard enamelled charcoal-metallic (dark gun metal, DB 703) or, as an option, enamelled in colours (see list below). As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)
As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off. No protection against thrown balls.

Front glass
Domed mineral glass on 300 mm cases, shock-resistant Plexiglas® XT on 400 mm cases. As an option, low reflectivity front glass is available.

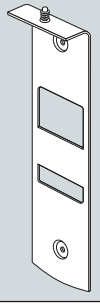
Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
Silver anodised with radial brush finish, black Arabic numerals for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, black second hand.
No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Snap-tight fixture (option)



41.**240**.311 shown

Clock type	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**240**.311	**220.–**	41.**240**.411	**314.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**240**.311	**275.–**	51.**240**.411	**379.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**240**.311	**355.–**	52.**240**.411	**459.–**
Slave clock, minute pulse 12...60 V	71.**240**.311	**235.–**	71.**240**.411	**319.–**
Slave clock, minute/second pulse 12/24 V	72.**240**.311	**460.–**	72.**240**.411	**544.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**240**.311	**600.–**	73.**240**.411	**684.–**
Telegram slave clock, *DCFport24*	81.**240**.311	**260.–**	81.**240**.411	**354.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**240**.311	**364.–**	84.**240**.411	**458.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**240**.311	**424.–**	85.**240**.411	**518.–**
NTP system clock (NTP client), synch. by LAN, PoE [1]	91.**240**.311	**409.–**	91.**240**.411	**503.–**

Options	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in jet black RAL 9005	**-01**	**none**	**-01**	**none**
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**	**-05**	**none**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**89.–**	**-20**	**109.–**
Low reflectivity front glass	**-50**	**on request**	**-50**	**on request**
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**59.–**		**fitted as standard**
Packaging against dust and spray (IP 54)	**-54**	**69.–**	**-54**	**69.–**
Snap-tight mounting fixture	**-57**	**49.–**	**-57**	**49.–**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
? custom enamelled	**-10**
stainless steel V2A	**-20**

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Wall Clocks
single face

Sophisticated clocks for demanding environments – a professional means of showing the time.

Case
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, as standard enamelled charcoal-metallic (dark gun metal, DB 703) or, as an option, enamelled in colours (see list below). As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)
As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off. No protection against thrown balls.

Front glass
Domed mineral glass on 300 mm cases, shock-resistant Plexiglas® XT on 400 mm cases. As an option, low reflectivity front glass is available.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

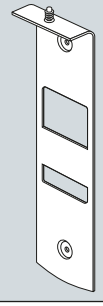
Face
Silver anodised with radial brush finish, black fine-line markings. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, black second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Snap-tight fixture (option)



41.**240**.331 shown

Clock type	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**240**.331	**220.–**	41.**240**.431	**314.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**240**.331	**275.–**	51.**240**.431	**379.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**240**.331	**355.–**	52.**240**.431	**459.–**
Slave clock, minute pulse 12...60 V	71.**240**.331	**235.–**	71.**240**.431	**319.–**
Slave clock, minute/second pulse 12/24 V	72.**240**.331	**460.–**	72.**240**.431	**544.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**240**.331	**600.–**	73.**240**.431	**684.–**
Telegram slave clock, *DCFport24*	81.**240**.331	**260.–**	81.**240**.431	**354.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**240**.331	**364.–**	84.**240**.431	**458.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**240**.331	**424.–**	85.**240**.431	**518.–**
NTP system clock (NTP client), synch. by LAN, PoE [1]	91.**240**.331	**409.–**	91.**240**.431	**503.–**

Options	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in jet black RAL 9005	**-01**	**none**	**-01**	**none**
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**	**-05**	**none**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**89.–**	**-20**	**109.–**
Low reflectivity front glass	**-50**	**on request**	**-50**	**on request**
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**59.–**		**fitted as standard**
Packaging against dust and spray (IP 54)	**-54**	**69.–**	**-54**	**69.–**
Snap-tight mounting fixture	**-57**	**49.–**	**-57**	**49.–**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

◀ This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
custom enamelled	**-10**
stainless steel V2A	**-20**

Indoor
analog
single face

Type series
240

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Wall Clocks

Indoor
analog
single face

Type series
246

Elegant clocks, combining faces with Roman numerals and tapered hands with state-of-the-art clockwork technology.

Case

■ cir. 300 mm diameter
very sturdy metal case, as standard enamelled white (RAL 9016) or, as an option, enamelled in colours (see list below).
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60529).

Snap-tight fixture (option)

As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off.

Front glass

Domed mineral glass as standard, shock-resistant Plexiglas® XT as an option.

Face

Metal, enamelled white with black Roman numerals.

Hands

Tapered black hour and minute hands, no second hand.

Power outage reserve

DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Stainless steel V2A (option)

Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

41.**246**.311

71.**246**.311 **-01** shown

Clock type	Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**246**.311	**210.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**246**.311	**265.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**246**.311	**345.–**
Slave clock, minute pulse 12...60 V	71.**246**.311	**225.–**
Telegram slave clock, *DCFport24*	81.**246**.311	**250.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**246**.311	**354.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**246**.311	**414.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**246**.311	**399.–**

Options	Suffix	Surcharge € each
Case enamelled in jet black RAL 9005	**-01**	**none**
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**
Case custom enamelled	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**89.–**
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**59.–**
Snap-tight mounting fixture	**-57**	**49.–**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**
stainless steel V2A	**-20**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Wall Clocks

Highly presentable clocks for demanding environments – a professional means of showing the time.

Case

■ cir. 300 mm diameter
very sturdy metal case, as standard enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in colours (see list below).
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)

As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off.

Front glass

Domed mineral glass as standard, shock-resistant Plexiglas® XT as an option.

Packaging (option)

As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face

Metal, enamelled white with extra large, distinct black Arabic numerals for easy, doubt-free reading even over longer distances.

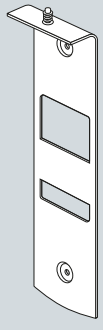
Hands:

Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Snap-tight fixture (option)



81.**249**.311 **-20** shown

Clock type	Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**249**.311	**190.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**249**.311	**245.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**249**.311	**325.–**
Slave clock, minute pulse 12...60 V	71.**249**.311	**205.–**
Slave clock, minute/second pulse 12/24 V	72.**249**.311	**430.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**249**.311	**570.–**
Telegram slave clock, *DCFport24*	81.**249**.311	**230.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**249**.311	**334.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**249**.311	**394.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**249**.311	**379.–**

Options	Suffix	Surcharge € each
Case enamelled in jet black RAL 9005	**-01**	**none**
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**
Case custom enamelled	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**89.–**
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**59.–**
Packaging against dust and spray (IP 54)	**-54**	**69.–**
Snap-tight mounting fixture	**-57**	**49.–**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Case colour	Suffix
jet black RAL 9005	**-01**
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
custom enamelled	**-10**
stainless steel V2A	**-20**

This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Indoor
analog
single face

Type series
249

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

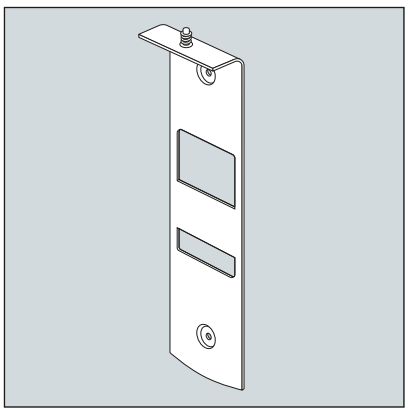
Wall Clocks
single face

Indoor
analog
single face

Type series
250

81.**250**.311 shown

Highly presentable clocks for demanding environments – a professional means of showing the time.



This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Case
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, as standard enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in colours (see list below).
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)
As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off. No protection against thrown balls.

Front glass
Domed mineral glass on 300 mm case, shock-resistant Plexiglas® XT on 400 mm case as standard. As an option, low reflectivity front glass is available.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Indoor
analog
single face

Type series
250

Clock type (face diameter ▶)	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.250.311	190.–	41.250.411	284.–
DCF77 radio controlled clock, battery operated 1.5 V	51.250.311	245.–	51.250.411	349.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.250.311	325.–	52.250.411	429.–
Slave clock, minute pulse 12...60 V	71.250.311	205.–	71.250.411	289.–
Slave clock, minute/second pulse 12/24 V	72.250.311	430.–	72.250.411	514.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.250.311	570.–	73.250.411	654.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.250.311	615.–	74.250.411	699.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.250.311	590.–	75.250.411	674.–
Telegram slave clock, *DCFport24*	81.250.311	230.–	81.250.411	324.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.250.311	334.–	84.250.411	428.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.250.311	394.–	85.250.411	488.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.250.311	379.–	91.250.411	473.–

Options	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in traffic white RAL 9016	-00	none	-00	none
Case enamelled in jet black RAL 9005	-01	none	-01	none
Case enamelled in metallic dark gun metal DB 703	-06	none	-06	none
Case custom enamelled	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	89.–	-20	109.–
Low reflectivity front glass	-50	on request	-50	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)	-53	59.–		fitted as standard
Packaging against dust and spray (IP 54)	-54	69.–	-54	69.–
Snap-tight mounting fixture	-57	49.–	-57	49.–
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
traffic white RAL 9016	-00
jet black RAL 9005	-01
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

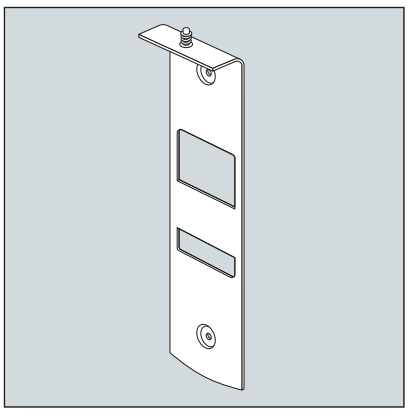
Wall Clocks
single face

Indoor
analog
single face

Type series
250

71.**250**.321 shown

Highly presentable clocks for demanding environments – a professional means of showing the time.



This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Case
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, as standard enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in colours (see list below).
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)
As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off. No protection against thrown balls.

Front glass
Domed mineral glass on 300 mm case, shock-resistant Plexiglas® XT on 400 mm case as standard. As an option, low reflectivity front glass is available.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Indoor
analog
single face

Type series
250

Clock type	face diameter ▶ 300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.250.321	190.–	41.250.421	284.–
DCF77 radio controlled clock, battery operated 1.5 V	51.250.321	245.–	51.250.421	349.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.250.321	325.–	52.250.421	429.–
Slave clock, minute pulse 12...60 V	71.250.321	205.–	71.250.421	289.–
Slave clock, minute/second pulse 12/24 V	72.250.321	430.–	72.250.421	514.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.250.321	570.–	73.250.421	654.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.250.321	615.–	74.250.421	699.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.250.321	590.–	75.250.421	674.–
Telegram slave clock, *DCFport24*	81.250.321	230.–	81.250.421	324.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.250.321	334.–	84.250.421	428.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.250.321	394.–	85.250.421	488.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.250.321	379.–	91.250.421	473.–

Options	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in traffic white RAL 9016	-00	none	-00	none
Case enamelled in jet black RAL 9005	-01	none	-01	none
Case enamelled in metallic dark gun metal DB 703	-06	none	-06	none
Case custom enamelled	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	89.–	-20	109.–
Low reflectivity front glass	-50	on request	-50	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)	-53	59.–		fitted as standard
Packaging against dust and spray (IP 54)	-54	69.–	-54	69.–
Snap-tight mounting fixture	-57	49.–	-57	49.–
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
traffic white RAL 9016	-00
jet black RAL 9005	-01
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

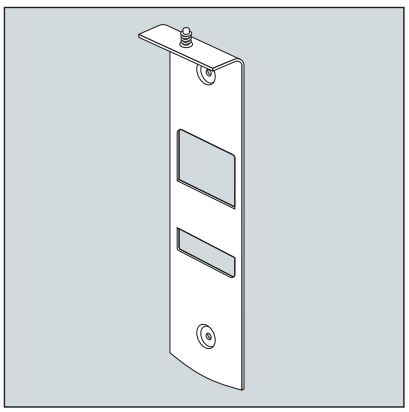
Wall Clocks
single face

Indoor
analog
single face

Type series
250

51.**250**.331 shown

Highly presentable clocks for demanding environments – a professional means of showing the time.



This Snap-tight fixture (option -57) prevents the clock from dropping or being wrenched off. Screw fixture to the wall, attach clock – done! No protection against thrown balls.

Optionally available with case enamelled in colours

Case
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, as standard enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in colours (see list below).
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Snap-tight fixture (option)
As an option, these clocks are available with an additional mounting fixture to prohibit dropping or wrenching off. No protection against thrown balls.

Front glass
Domed mineral glass on 300 mm case, shock-resistant Plexiglas® XT on 400 mm case as standard. As an option, low reflectivity front glass is available.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Indoor
analog
single face

Type series
250

Clock type (face diameter ▶)	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.250.331	190.–	41.250.431	284.–
DCF77 radio controlled clock, battery operated 1.5 V	51.250.331	245.–	51.250.431	349.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.250.331	325.–	52.250.431	429.–
Slave clock, minute pulse 12...60 V	71.250.331	205.–	71.250.431	289.–
Slave clock, minute/second pulse 12/24 V	72.250.331	430.–	72.250.431	514.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.250.331	570.–	73.250.431	654.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.250.331	615.–	74.250.431	699.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.250.331	590.–	75.250.431	674.–
Telegram slave clock, *DCFport24*	81.250.331	230.–	81.250.431	324.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.250.331	334.–	84.250.431	428.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.250.331	394.–	85.250.431	488.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.250.331	379.–	91.250.431	473.–

Options	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in traffic white RAL 9016	-00	none	-00	none
Case enamelled in jet black RAL 9005	-01	none	-01	none
Case enamelled in metallic dark gun metal DB 703	-06	none	-06	none
Case custom enamelled	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	89.–	-20	109.–
Low reflectivity front glass	-50	on request	-50	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)	-53	59.–		fitted as standard
Packaging against dust and spray (IP 54)	-54	69.–	-54	69.–
Snap-tight mounting fixture	-57	49.–	-57	49.–
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
traffic white RAL 9016	-00
jet black RAL 9005	-01
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

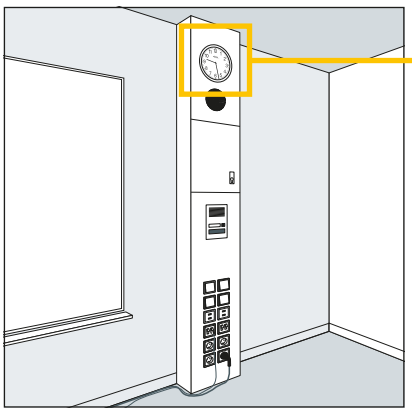
Indoor Clocks
single face

Indoor
analog
single face

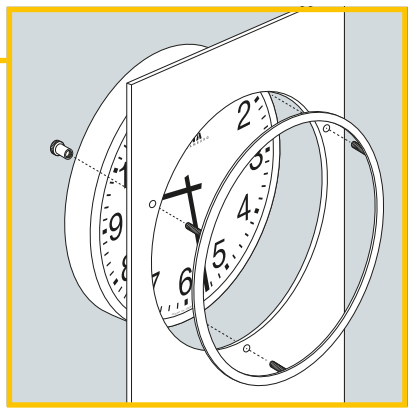
Type series
270

81.**270**.311 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!



Media pillar fitted with a type series 270 wall clock



Installation inside a media pillar by means of a front ring (extra)

Case
- cir. 265 mm diameter
- cir. 315 mm diameter
- cir. 415 mm diameter

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
270

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type (face diameter ▶)	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.270.211	129.–	41.270.311	134.–	41.270.411	179.–
DCF77 radio controlled clock, battery operated 1.5 V	51.270.211	184.–	51.270.311	189.–	51.270.411	244.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.270.211	264.–	52.270.311	269.–	52.270.411	324.–
Slave clock, minute pulse 12...60 V	71.270.211	144.–	71.270.311	149.–	71.270.411	184.–
Slave clock, minute/second pulse 12/24 V	72.270.211	369.–	72.270.311	374.–	72.270.411	409.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.270.211	509.–	73.270.311	514.–	73.270.411	549.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.270.211	554.–	74.270.311	559.–	74.270.411	594.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.270.211	529.–	75.270.311	534.–	75.270.411	569.–
Telegram slave clock, *DCFport24*	81.270.211	169.–	81.270.311	174.–	81.270.411	219.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.270.211	273.–	84.270.311	278.–	84.270.411	323.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.270.211	333.–	85.270.311	338.–	85.270.411	383.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.270.211	318.–	91.270.311	323.–	91.270.411	368.–

Option	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Extras	250 mm Item No.	€ each
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 1.5 mm steel panels** [2]	01.270.200	49.–
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 19 mm wood panels** [2]	01.270.220	49.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[2] For fitting the front ring, an appropriate cut-out as well as 3 mounting holes must be provided. Please ask for the scale drawing if required.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

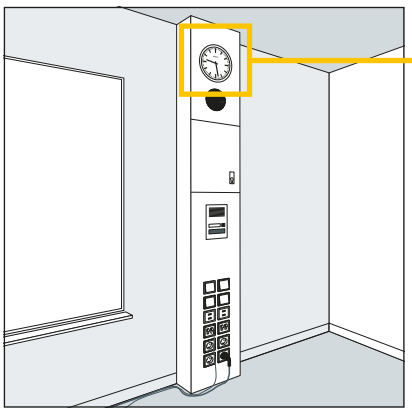
Indoor Clocks
single face

Indoor
analog
single face

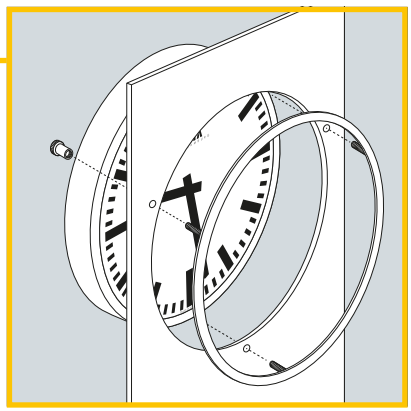
Type series
270

71.**270**.321 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!



Media pillar fitted with a type series 270 wall clock



Installation inside a media pillar by means of a front ring (extra)

Case
- cir. 265 mm diameter
- cir. 315 mm diameter
- cir. 415 mm diameter

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
270

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type ▸ face diameter	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.270.221	129.–	41.270.321	134.–	41.270.421	179.–
DCF77 radio controlled clock, battery operated 1.5 V	51.270.221	184.–	51.270.321	189.–	51.270.421	244.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.270.221	264.–	52.270.321	269.–	52.270.421	324.–
Slave clock, minute pulse 12...60 V	71.270.221	144.–	71.270.321	149.–	71.270.421	184.–
Slave clock, minute/second pulse 12/24 V	72.270.221	369.–	72.270.321	374.–	72.270.421	409.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.270.221	509.–	73.270.321	514.–	73.270.421	549.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.270.221	554.–	74.270.321	559.–	74.270.421	594.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.270.221	529.–	75.270.321	534.–	75.270.421	569.–
Telegram slave clock, *DCFport24*	81.270.221	169.–	81.270.321	174.–	81.270.421	219.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.270.221	273.–	84.270.321	278.–	84.270.421	323.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.270.221	333.–	85.270.321	338.–	85.270.421	383.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.270.221	318.–	91.270.321	323.–	91.270.421	368.–

Option	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Extras	250 mm Item No.	€ each
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 1.5 mm steel panels** [2]	01.270.200	49.–
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 19 mm wood panels** [2]	01.270.220	49.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[2] For fitting the front ring, an appropriate cut-out as well as 3 mounting holes must be provided. Please ask for the scale drawing if required.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

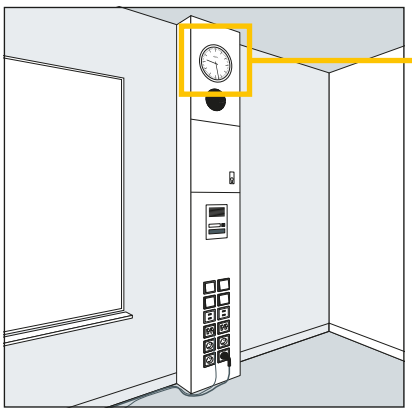
Indoor Clocks
single face

Indoor
analog
single face

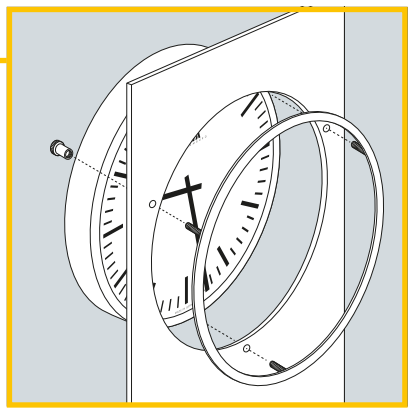
Type series
270

51.**270**.331 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!



Media pillar fitted with a type series 270 wall clock



Installation inside a media pillar by means of a front ring (extra)

Case
- cir. 265 mm diameter
- cir. 315 mm diameter
- cir. 415 mm diameter

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
270

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type (face diameter ▶)	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.270.231	129.–	41.270.331	134.–	41.270.431	179.–
DCF77 radio controlled clock, battery operated 1.5 V	51.270.231	184.–	51.270.331	189.–	51.270.431	244.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.270.231	264.–	52.270.331	269.–	52.270.431	324.–
Slave clock, minute pulse 12...60 V	71.270.231	144.–	71.270.331	149.–	71.270.431	184.–
Slave clock, minute/second pulse 12/24 V	72.270.231	369.–	72.270.331	374.–	72.270.431	409.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.270.231	509.–	73.270.331	514.–	73.270.431	549.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.270.231	554.–	74.270.331	559.–	74.270.431	594.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.270.231	529.–	75.270.331	534.–	75.270.431	569.–
Telegram slave clock, *DCFport24*	81.270.231	169.–	81.270.331	174.–	81.270.431	219.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.270.231	273.–	84.270.331	278.–	84.270.431	323.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.270.231	333.–	85.270.331	338.–	85.270.431	383.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.270.231	318.–	91.270.331	323.–	91.270.431	368.–

Option	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Extras	250 mm Item No.	€ each
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 1.5 mm steel panels** [2]	01.270.200	49.–
Front ring, 288 mm diameter, for fitting clocks of this type series with a case diameter of 265 mm to **media pillars made of 19 mm wood panels** [2]	01.270.220	49.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[2] For fitting the front ring, an appropriate cut-out as well as 3 mounting holes must be provided. Please ask for the scale drawing if required.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
271

51.**271**.311 shown

Wall clocks with sturdy **metal cases.** State-of-the-art, up-to-date, functional – totally reliable!

71.**271**.311

Slave clock, minute pulse 12...60 V

Case
- cir. 265 mm diameter
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT on 265 mm diameter cases, domed mineral glass on 300 mm diameter cases and shock-resistant Plexiglas® XT on 400 mm cases.

Face
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
271

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type (face diameter ▶)	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.271.211	178.–	41.271.311	180.–	41.271.411	274.–
DCF77 radio controlled clock, battery operated 1.5 V	51.271.211	233.–	51.271.311	235.–	51.271.411	339.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.271.211	313.–	52.271.311	315.–	52.271.411	419.–
Slave clock, minute pulse 12...60 V	71.271.211	193.–	71.271.311	195.–	71.271.411	279.–
Slave clock, minute/second pulse 12/24 V	72.271.211	418.–	72.271.311	420.–	72.271.411	504.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.271.211	558.–	73.271.311	560.–	73.271.411	644.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.271.211	603.–	74.271.311	605.–	74.271.411	689.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.271.211	578.–	75.271.311	580.–	75.271.411	664.–
Telegram slave clock, *DCFport24*	81.271.211	218.–	81.271.311	220.–	81.271.411	314.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.271.211	322.–	84.271.311	324.–	84.271.411	418.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.271.211	382.–	85.271.311	384.–	85.271.411	478.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.271.211	367.–	91.271.311	369.–	91.271.411	463.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	10.–	-05	10.–	-05	10.–
Case enamelled in metallic dark gun metal DB 703	-06	10.–	-06	10.–	-06	10.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)		fitted as standard	-53	59.–		fitted as standard
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
? custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
271

71.**271**.321 shown

Wall clocks with sturdy **metal cases.** State-of-the-art, up-to-date, functional – totally reliable!

71.**271**.321 **-05**

Optionally available with case enamelled in metallic silver grey RAL 9006

Case
- cir. 265 mm diameter
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT on 265 mm diameter cases, domed mineral glass on 300 mm diameter cases and shock-resistant Plexiglas® XT on 400 mm cases.

Face
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.
No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
271

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

face diameter ▶ / Clock type	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.271.221	178.–	41.271.321	180.–	41.271.421	274.–
DCF77 radio controlled clock, battery operated 1.5 V	51.271.221	233.–	51.271.321	235.–	51.271.421	339.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.271.221	313.–	52.271.321	315.–	52.271.421	419.–
Slave clock, minute pulse 12...60 V	71.271.221	193.–	71.271.321	195.–	71.271.421	279.–
Slave clock, minute/second pulse 12/24 V	72.271.221	418.–	72.271.321	420.–	72.271.421	504.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.271.221	558.–	73.271.321	560.–	73.271.421	644.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.271.221	603.–	74.271.321	605.–	74.271.421	689.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.271.221	578.–	75.271.321	580.–	75.271.421	664.–
Telegram slave clock, *DCFport24*	81.271.221	218.–	81.271.321	220.–	81.271.421	314.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.271.221	322.–	84.271.321	324.–	84.271.421	418.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.271.221	382.–	85.271.321	384.–	85.271.421	478.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.271.221	367.–	91.271.321	369.–	91.271.421	463.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	10.–	-05	10.–	-05	10.–
Case enamelled in metallic dark gun metal DB 703	-06	10.–	-06	10.–	-06	10.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)		fitted as standard	-53	59.–		fitted as standard
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
? custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
271

51.**271**.331 shown

Wall clocks with sturdy **metal cases.** State-of-the-art, up-to-date, functional – totally reliable!

71.**271**.331

Slave clock, minute pulse 12...60 V

Case
- cir. 265 mm diameter
- cir. 300 mm diameter
- cir. 400 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT on 265 mm diameter cases, domed mineral glass on 300 mm diameter cases and shock-resistant Plexiglas® XT on 400 mm cases.

Face
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
271

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 VAC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type (face diameter ▶)	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.271.231	178.–	41.271.331	180.–	41.271.431	274.–
DCF77 radio controlled clock, battery operated 1.5 V	51.271.231	233.–	51.271.331	235.–	51.271.431	339.–
DCF77 radio controlled clock, mains operated 230 VAC, with outage reserve	52.271.231	313.–	52.271.331	315.–	52.271.431	419.–
Slave clock, minute pulse 12...60 V	71.271.231	193.–	71.271.331	195.–	71.271.431	279.–
Slave clock, minute/second pulse 12/24 V	72.271.231	418.–	72.271.331	420.–	72.271.431	504.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.271.231	558.–	73.271.331	560.–	73.271.431	644.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.271.231	603.–	74.271.331	605.–	74.271.431	689.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.271.231	578.–	75.271.331	580.–	75.271.431	664.–
Telegram slave clock, *DCFport24*	81.271.231	218.–	81.271.331	220.–	81.271.431	314.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.271.231	322.–	84.271.331	324.–	84.271.431	418.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.271.231	382.–	85.271.331	384.–	85.271.431	478.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.271.231	367.–	91.271.331	369.–	91.271.431	463.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	10.–	-05	10.–	-05	10.–
Case enamelled in metallic dark gun metal DB 703	-06	10.–	-06	10.–	-06	10.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Shock-resistant Plexiglas® XT (instead of mineral glass)		fitted as standard	-53	59.–		fitted as standard
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
? custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
double face

Indoor
analog
double face

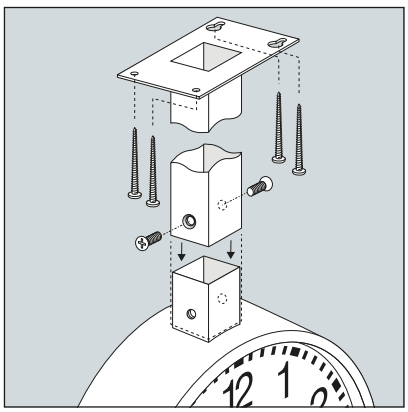
Type series
272

81.**272**.312 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

Suffix **-37**

Metal cover for wall or ceiling mounting brackets available as an option



Detachable ceiling mounting in any length desired (e.g. for suspension beneath a false ceiling), available as an option (Suffix -29)

Case
- cir. 270 mm diameter
- cir. 320 mm diameter
- cir. 420 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Faces printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hands.

No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

▼ Clock type	Face diameter ▶ Mounting ▼	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V[1) 2)]	wall	51.272.212	675.–	51.272.312	745.–	51.272.412	825.–
	ceiling	51.272.213	675.–	51.272.313	745.–	51.272.413	825.–
DCF77 radio controlled clock, mains operated 230 V AC[2)]	wall	52.272.212	715.–	52.272.312	785.–	52.272.412	865.–
	ceiling	52.272.213	715.–	52.272.313	785.–	52.272.413	865.–
Slave clock, minute pulse 12...60 V	wall	71.272.212	419.–	71.272.312	459.–	71.272.412	539.–
	ceiling	71.272.213	419.–	71.272.313	459.–	71.272.413	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.272.212	869.–	72.272.312	909.–	72.272.412	989.–
	ceiling	72.272.213	869.–	72.272.313	909.–	72.272.413	989.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	wall	74.272.212	1,239.–	74.272.312	1,279.–	74.272.412	1,359.–
	ceiling	74.272.213	1,239.–	74.272.313	1,279.–	74.272.413	1,359.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	75.272.212	1,189.–	75.272.312	1,229.–	75.272.412	1,309.–
	ceiling	75.272.213	1,189.–	75.272.313	1,229.–	75.272.413	1,309.–
Telegram slave clock, *DCFport24*	wall	81.272.212	465.–	81.272.312	505.–	81.272.412	585.–
	ceiling	81.272.213	465.–	81.272.313	505.–	81.272.413	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V[1)]	wall	84.272.212	685.–	84.272.312	725.–	84.272.412	805.–
	ceiling	84.272.213	685.–	84.272.313	725.–	84.272.413	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.272.212	725.–	85.272.312	765.–	85.272.412	845.–
	ceiling	85.272.213	725.–	85.272.313	765.–	85.272.413	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.272.212	635.–	91.272.312	675.–	91.272.412	755.–
	ceiling	91.272.213	635.–	91.272.313	675.–	91.272.413	755.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
double face

Type series
272

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
double face

Indoor
analog
double face

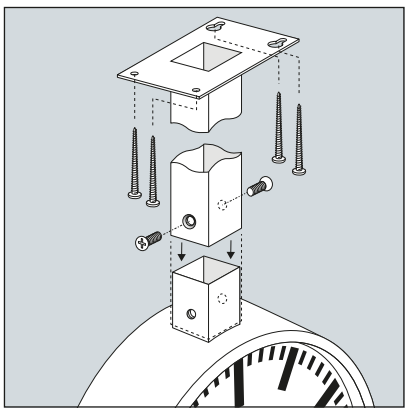
Type series
272

71.**272**.322 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

71.**272**.423 **-30**

Clock case with lugs (option) for suspension by metal ropes or chains



Detachable ceiling mounting in any length desired (e.g. for suspension beneath a false ceiling), available as an option (Suffix -29)

Case
- cir. 270 mm diameter
- cir. 320 mm diameter
- cir. 420 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hands.
No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Indoor
analog
double face

Type series
272

▼ Clock type	Face diameter ▶ Mounting ▼	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V[1) 2)]	wall	51.272.222	675.–	51.272.322	745.–	51.272.422	825.–
	ceiling	51.272.223	675.–	51.272.323	745.–	51.272.423	825.–
DCF77 radio controlled clock, mains operated 230 V AC[2)]	wall	52.272.222	715.–	52.272.322	785.–	52.272.422	865.–
	ceiling	52.272.223	715.–	52.272.323	785.–	52.272.423	865.–
Slave clock, minute pulse 12...60 V	wall	71.272.222	419.–	71.272.322	459.–	71.272.422	539.–
	ceiling	71.272.223	419.–	71.272.323	459.–	71.272.423	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.272.222	869.–	72.272.322	909.–	72.272.422	989.–
	ceiling	72.272.223	869.–	72.272.323	909.–	72.272.423	989.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	wall	74.272.222	1,239.–	74.272.322	1,279.–	74.272.422	1,359.–
	ceiling	74.272.223	1,239.–	74.272.323	1,279.–	74.272.423	1,359.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	75.272.222	1,189.–	75.272.322	1,229.–	75.272.422	1,309.–
	ceiling	75.272.223	1,189.–	75.272.323	1,229.–	75.272.423	1,309.–
Telegram slave clock, *DCFport24*	wall	81.272.222	465.–	81.272.322	505.–	81.272.422	585.–
	ceiling	81.272.223	465.–	81.272.323	505.–	81.272.423	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V[1)]	wall	84.272.222	685.–	84.272.322	725.–	84.272.422	805.–
	ceiling	84.272.223	685.–	84.272.323	725.–	84.272.423	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.272.222	725.–	85.272.322	765.–	85.272.422	845.–
	ceiling	85.272.223	725.–	85.272.323	765.–	85.272.423	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.272.222	635.–	91.272.322	675.–	91.272.422	755.–
	ceiling	91.272.223	635.–	91.272.323	675.–	91.272.423	755.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
double face

Indoor
analog
double face

Type series
272

81.**272**.332 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

Suffix **–37**

Metal cover for wall or ceiling mounting brackets available as an option

71.**272**.433 **–30**

Clock case with lugs (option) for suspension by metal ropes or chains

Case
- cir. 270 mm diameter
- cir. 320 mm diameter
- cir. 420 mm diameter

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hands.
No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

▼ Clock type	Face diameter ▶ Mounting ▼	250 mm Item No.	€ each	300 mm Item No.	€ each	400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V[1) 2)]	wall	51.272.232	675.–	51.272.332	745.–	51.272.432	825.–
	ceiling	51.272.233	675.–	51.272.333	745.–	51.272.433	825.–
DCF77 radio controlled clock, mains operated 230 V AC[2)]	wall	52.272.232	715.–	52.272.332	785.–	52.272.432	865.–
	ceiling	52.272.233	715.–	52.272.333	785.–	52.272.433	865.–
Slave clock, minute pulse 12...60 V	wall	71.272.232	419.–	71.272.332	459.–	71.272.432	539.–
	ceiling	71.272.233	419.–	71.272.333	459.–	71.272.433	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.272.232	869.–	72.272.332	909.–	72.272.432	989.–
	ceiling	72.272.233	869.–	72.272.333	909.–	72.272.433	989.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	wall	74.272.232	1,239.–	74.272.332	1,279.–	74.272.432	1,359.–
	ceiling	74.272.233	1,239.–	74.272.333	1,279.–	74.272.433	1,359.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	75.272.232	1,189.–	75.272.332	1,229.–	75.272.432	1,309.–
	ceiling	75.272.233	1,189.–	75.272.333	1,229.–	75.272.433	1,309.–
Telegram slave clock, *DCFport24*	wall	81.272.232	465.–	81.272.332	505.–	81.272.432	585.–
	ceiling	81.272.233	465.–	81.272.333	505.–	81.272.433	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V[1)]	wall	84.272.232	685.–	84.272.332	725.–	84.272.432	805.–
	ceiling	84.272.233	685.–	84.272.333	725.–	84.272.433	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.272.232	725.–	85.272.332	765.–	85.272.432	845.–
	ceiling	85.272.233	725.–	85.272.333	765.–	85.272.433	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.272.232	635.–	91.272.332	675.–	91.272.432	755.–
	ceiling	91.272.233	635.–	91.272.333	675.–	91.272.433	755.–

Options	250 mm Suffix	Surcharge € each	300 mm Suffix	Surcharge € each	400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
double face

Type series
272

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
280

41.**280**.311 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!

71.**280**.311

Slave clock, minute pulse 12...60 V

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
280

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type ▸ Face dimensions	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.280.211	129.–	41.280.311	134.–	41.280.411	179.–
DCF77 radio controlled clock, battery operated 1.5 V	51.280.211	184.–	51.280.311	189.–	51.280.411	244.–
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.280.211	264.–	52.280.311	269.–	52.280.411	324.–
Slave clock, minute pulse 12...60 V	71.280.211	144.–	71.280.311	149.–	71.280.411	184.–
Slave clock, minute/second pulse 12/24 V	72.280.211	369.–	72.280.311	374.–	72.280.411	409.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.280.211	509.–	73.280.311	514.–	73.280.411	549.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.280.211	554.–	74.280.311	559.–	74.280.411	594.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.280.211	529.–	75.280.311	534.–	75.280.411	569.–
Telegram slave clock, *DCFport24*	81.280.211	169.–	81.280.311	174.–	81.280.411	219.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.280.211	273.–	84.280.311	278.–	84.280.411	323.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.280.211	333.–	85.280.311	338.–	85.280.411	383.–
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.280.211	318.–	91.280.311	323.–	91.280.411	368.–

Option	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	-60	169.–	-60	169.–	-60	169.–

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
280

71.**280**.321 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!

81.**280**.321

Telegram slave clock

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.
No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
280

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 VAC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type / Face dimensions ▶	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**280**.221	**129.–**	41.**280**.321	**134.–**	41.**280**.421	**179.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**280**.221	**184.–**	51.**280**.321	**189.–**	51.**280**.421	**244.–**
DCF77 radio controlled clock, mains operated 230 VAC, with outage reserve	52.**280**.221	**264.–**	52.**280**.321	**269.–**	52.**280**.421	**324.–**
Slave clock, minute pulse 12...60 V	71.**280**.221	**144.–**	71.**280**.321	**149.–**	71.**280**.421	**184.–**
Slave clock, minute/second pulse 12/24 V	72.**280**.221	**369.–**	72.**280**.321	**374.–**	72.**280**.421	**409.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**280**.221	**509.–**	73.**280**.321	**514.–**	73.**280**.421	**549.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.**280**.221	**554.–**	74.**280**.321	**559.–**	74.**280**.421	**594.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**280**.221	**529.–**	75.**280**.321	**534.–**	75.**280**.421	**569.–**
Telegram slave clock, *DCFport24*	81.**280**.221	**169.–**	81.**280**.321	**174.–**	81.**280**.421	**219.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**280**.221	**273.–**	84.**280**.321	**278.–**	84.**280**.421	**323.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.**280**.221	**333.–**	85.**280**.321	**338.–**	85.**280**.421	**383.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**280**.221	**318.–**	91.**280**.321	**323.–**	91.**280**.421	**368.–**

Option	250x250 mm Suffix	Surcharge € each	300x300 mm Suffix	Surcharge € each	400x400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**	**-60**	**169.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
280

51.**280**.331 shown

Wall clocks with shock-resistant **plastic cases**. State-of-the-art, up-to-date, functional – totally reliable!

71.**280**.331

Slave clock, minute pulse 12...60 V

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

shock-resistant Plexiglas® XT case with a matted rim.
Protection grade IP 40 (EN 60 529).

Front glass
Shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
280

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type ▸ Face dimensions	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**280**.231	**129.–**	41.**280**.331	**134.–**	41.**280**.431	**179.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**280**.231	**184.–**	51.**280**.331	**189.–**	51.**280**.431	**244.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**280**.231	**264.–**	52.**280**.331	**269.–**	52.**280**.431	**324.–**
Slave clock, minute pulse 12...60 V	71.**280**.231	**144.–**	71.**280**.331	**149.–**	71.**280**.431	**184.–**
Slave clock, minute/second pulse 12/24 V	72.**280**.231	**369.–**	72.**280**.331	**374.–**	72.**280**.431	**409.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**280**.231	**509.–**	73.**280**.331	**514.–**	73.**280**.431	**549.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**280**.231	**554.–**	74.**280**.331	**559.–**	74.**280**.431	**594.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**280**.231	**529.–**	75.**280**.331	**534.–**	75.**280**.431	**569.–**
Telegram slave clock, *DCFport24*	81.**280**.231	**169.–**	81.**280**.331	**174.–**	81.**280**.431	**219.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**280**.231	**273.–**	84.**280**.331	**278.–**	84.**280**.431	**323.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**280**.231	**333.–**	85.**280**.331	**338.–**	85.**280**.431	**383.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1)]	91.**280**.231	**318.–**	91.**280**.331	**323.–**	91.**280**.431	**368.–**

Option	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**	**-60**	**169.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
281

81.**281**.311 shown

Wall clocks with sturdy **metal cases** with shock-resistant front glasses. State-of-the-art, up-to-date, functional – totally reliable!

71.**281**.311

Slave clock, minute pulse 12...60 V

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
281

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type ▼ Face dimensions ▶	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**281**.211	**178.–**	41.**281**.311	**180.–**	41.**281**.411	**274.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**281**.211	**233.–**	51.**281**.311	**235.–**	51.**281**.411	**339.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**281**.211	**313.–**	52.**281**.311	**315.–**	52.**281**.411	**419.–**
Slave clock, minute pulse 12...60 V	71.**281**.211	**193.–**	71.**281**.311	**195.–**	71.**281**.411	**279.–**
Slave clock, minute/second pulse 12/24 V	72.**281**.211	**418.–**	72.**281**.311	**420.–**	72.**281**.411	**504.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**281**.211	**558.–**	73.**281**.311	**560.–**	73.**281**.411	**644.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**281**.211	**603.–**	74.**281**.311	**605.–**	74.**281**.411	**689.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**281**.211	**578.–**	75.**281**.311	**580.–**	75.**281**.411	**664.–**
Telegram slave clock, *DCFport24*	81.**281**.211	**218.–**	81.**281**.311	**220.–**	81.**281**.411	**314.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**281**.211	**322.–**	84.**281**.311	**324.–**	84.**281**.411	**418.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**281**.211	**382.–**	85.**281**.311	**384.–**	85.**281**.411	**478.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**281**.211	**367.–**	91.**281**.311	**369.–**	91.**281**.411	**463.–**

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**10.–**	**-05**	**10.–**	**-05**	**10.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**10.–**	**-06**	**10.–**	**-06**	**10.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**	**-60**	**169.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
single face

Indoor
analog
single face

Type series
281

71.**281**.321 shown

Wall clocks with sturdy **metal cases** with shock-resistant front glasses. State-of-the-art, up-to-date, functional – totally reliable!

81.**281**.321

Telegram slave clock

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.
No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
281

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type ▸ Face dimensions	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**281**.221	**178.–**	41.**281**.321	**180.–**	41.**281**.421	**274.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**281**.221	**233.–**	51.**281**.321	**235.–**	51.**281**.421	**339.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**281**.221	**313.–**	52.**281**.321	**315.–**	52.**281**.421	**419.–**
Slave clock, minute pulse 12...60 V	71.**281**.221	**193.–**	71.**281**.321	**195.–**	71.**281**.421	**279.–**
Slave clock, minute/second pulse 12/24 V	72.**281**.221	**418.–**	72.**281**.321	**420.–**	72.**281**.421	**504.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**281**.221	**558.–**	73.**281**.321	**560.–**	73.**281**.421	**644.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**281**.221	**603.–**	74.**281**.321	**605.–**	74.**281**.421	**689.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**281**.221	**578.–**	75.**281**.321	**580.–**	75.**281**.421	**664.–**
Telegram slave clock, *DCFport24*	81.**281**.221	**218.–**	81.**281**.321	**220.–**	81.**281**.421	**314.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**281**.221	**322.–**	84.**281**.321	**324.–**	84.**281**.421	**418.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**281**.221	**382.–**	85.**281**.321	**384.–**	85.**281**.421	**478.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**281**.221	**367.–**	91.**281**.321	**369.–**	91.**281**.421	**463.–**

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**10.–**	**-05**	**10.–**	**-05**	**10.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**10.–**	**-06**	**10.–**	**-06**	**10.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**	**-60**	**169.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Indoor Clocks
single face

Indoor
analog
single face

Type series
281

81.**281**.331 shown

Wall clocks with sturdy **metal cases** with shock-resistant front glasses. State-of-the-art, up-to-date, functional – totally reliable!

71.**281**.331

Slave clock, minute pulse 12...60 V

Case
- cir. 275 x 275 mm
- cir. 325 x 325 mm
- cir. 425 x 425 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Flat shock-resistant Plexiglas® XT for outstandingly clear visibility.

Face
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hand on minute pulse 12...60 V controlled slave clocks.

Indoor
analog
single face

Type series
281

Power outage reserve
DCF77 radio controlled clocks and *AirPort24* slave clocks with a 230 V AC power supply of this type series provide continued operation for approx. 14 days in case of a mains power outage.

Clock type / Face dimensions ▶	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**281**.231	**178.–**	41.**281**.331	**180.–**	41.**281**.431	**274.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**281**.231	**233.–**	51.**281**.331	**235.–**	51.**281**.431	**339.–**
DCF77 radio controlled clock, mains operated 230 V AC, with outage reserve	52.**281**.231	**313.–**	52.**281**.331	**315.–**	52.**281**.431	**419.–**
Slave clock, minute pulse 12...60 V	71.**281**.231	**193.–**	71.**281**.331	**195.–**	71.**281**.431	**279.–**
Slave clock, minute/second pulse 12/24 V	72.**281**.231	**418.–**	72.**281**.331	**420.–**	72.**281**.431	**504.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**281**.231	**558.–**	73.**281**.331	**560.–**	73.**281**.431	**644.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**281**.231	**603.–**	74.**281**.331	**605.–**	74.**281**.431	**689.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**281**.231	**578.–**	75.**281**.331	**580.–**	75.**281**.431	**664.–**
Telegram slave clock, *DCFport24*	81.**281**.231	**218.–**	81.**281**.331	**220.–**	81.**281**.431	**314.–**
RC telegram slave clock, *AirPort24*, battery operated 1.5 V	84.**281**.231	**322.–**	84.**281**.331	**324.–**	84.**281**.431	**418.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**281**.231	**382.–**	85.**281**.331	**384.–**	85.**281**.431	**478.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [1]	91.**281**.231	**367.–**	91.**281**.331	**369.–**	91.**281**.431	**463.–**

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**10.–**	**-05**	**10.–**	**-05**	**10.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**10.–**	**-06**	**10.–**	**-06**	**10.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
External DCF77 receiving aerial (cannot be added later)	**-60**	**169.–**	**-60**	**169.–**	**-60**	**169.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Indoor Clocks
double face

Indoor
analog
double face

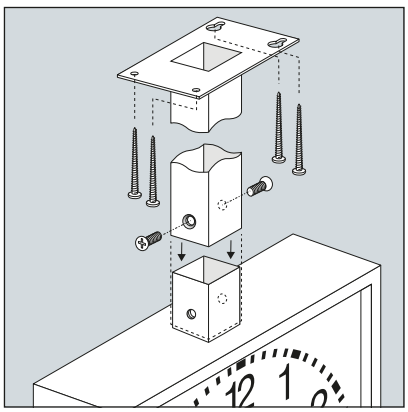
Type series
282

81.**282**.312 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

Suffix **-37**

Metal cover for wall or ceiling mounting brackets available as an option



Detachable ceiling mounting in any length desired (e.g. for suspension beneath a false ceiling), available as an option (Suffix -29)

Case
- cir. 285 x 285 mm
- cir. 335 x 335 mm
- cir. 435 x 435 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black Arabic numerals for easy, doubt-free reading even over longer distances. Faces printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hands.
No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

▼ Clock type	Face diameter ▶ Mounting ▼	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V [1) 2)]	wall	51.282.212	675.–	51.282.312	745.–	51.282.412	825.–
	ceiling	51.282.213	675.–	51.282.313	745.–	51.282.413	825.–
DCF77 radio controlled clock, mains operated 230 V AC [2)]	wall	52.282.212	715.–	52.282.312	785.–	52.282.412	865.–
	ceiling	52.282.213	715.–	52.282.313	785.–	52.282.413	865.–
Slave clock, minute pulse 12...60 V	wall	71.282.212	419.–	71.282.312	459.–	71.282.412	539.–
	ceiling	71.282.213	419.–	71.282.313	459.–	71.282.413	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.282.212	869.–	72.282.312	909.–	72.282.412	989.–
	ceiling	72.282.213	869.–	72.282.313	909.–	72.282.413	989.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	74.282.212	1,239.–	74.282.312	1,279.–	74.282.412	1,359.–
	ceiling	74.282.213	1,239.–	74.282.313	1,279.–	74.282.413	1,359.–
Slave clock, second pulse 12/24 V, with creeping minute hand	wall	75.282.212	1,189.–	75.282.312	1,229.–	75.282.412	1,309.–
	ceiling	75.282.213	1,189.–	75.282.313	1,229.–	75.282.413	1,309.–
Telegram slave clock, *DCFport24*	wall	81.282.212	465.–	81.282.312	505.–	81.282.412	585.–
	ceiling	81.282.213	465.–	81.282.313	505.–	81.282.413	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V [1)]	wall	84.282.212	685.–	84.282.312	725.–	84.282.412	805.–
	ceiling	84.282.213	685.–	84.282.313	725.–	84.282.413	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.282.212	725.–	85.282.312	765.–	85.282.412	845.–
	ceiling	85.282.213	725.–	85.282.313	765.–	85.282.413	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3)]	wall	91.282.212	635.–	91.282.312	675.–	91.282.412	755.–
	ceiling	91.282.213	635.–	91.282.313	675.–	91.282.413	755.–

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
double face

Type series
282

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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Indoor Clocks
double face

Indoor
analog
double face

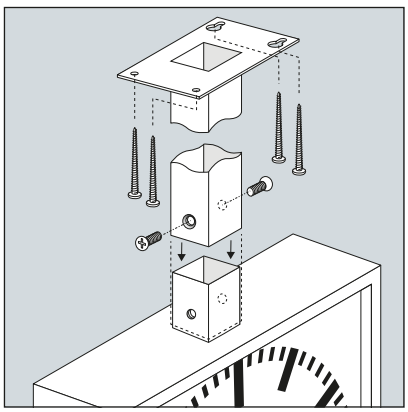
Type series
282

71.**282**.322 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

71.**282**.423 **-30**

Clock case with lugs (option) for suspension by metal ropes or chains



Detachable ceiling mounting in any length desired (e.g. for suspension beneath a false ceiling), available as an option (Suffix -29)

Case
- cir. 285 x 285 mm
- cir. 335 x 335 mm
- cir. 435 x 435 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black DIN bar markings for easy, doubt-free reading even over longer distances. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hands.
No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

▼ Clock type	Face diameter ▶ Mounting ▼	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V [1) 2)]	wall	51.282.222	675.–	51.282.322	745.–	51.282.422	825.–
	ceiling	51.282.223	675.–	51.282.323	745.–	51.282.423	825.–
DCF77 radio controlled clock, mains operated 230 V AC [2)]	wall	52.282.222	715.–	52.282.322	785.–	52.282.422	865.–
	ceiling	52.282.223	715.–	52.282.323	785.–	52.282.423	865.–
Slave clock, minute pulse 12...60 V	wall	71.282.222	419.–	71.282.322	459.–	71.282.422	539.–
	ceiling	71.282.223	419.–	71.282.323	459.–	71.282.423	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.282.222	869.–	72.282.322	909.–	72.282.422	989.–
	ceiling	72.282.223	869.–	72.282.323	909.–	72.282.423	989.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	74.282.222	1,239.–	74.282.322	1,279.–	74.282.422	1,359.–
	ceiling	74.282.223	1,239.–	74.282.323	1,279.–	74.282.423	1,359.–
Slave clock, second pulse 12/24 V, with creeping minute hand	wall	75.282.222	1,189.–	75.282.322	1,229.–	75.282.422	1,309.–
	ceiling	75.282.223	1,189.–	75.282.323	1,229.–	75.282.423	1,309.–
Telegram slave clock, *DCFport24*	wall	81.282.222	465.–	81.282.322	505.–	81.282.422	585.–
	ceiling	81.282.223	465.–	81.282.323	505.–	81.282.423	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V [1)]	wall	84.282.222	685.–	84.282.322	725.–	84.282.422	805.–
	ceiling	84.282.223	685.–	84.282.323	725.–	84.282.423	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.282.222	725.–	85.282.322	765.–	85.282.422	845.–
	ceiling	85.282.223	725.–	85.282.323	765.–	85.282.423	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3)]	wall	91.282.222	635.–	91.282.322	675.–	91.282.422	755.–
	ceiling	91.282.223	635.–	91.282.323	675.–	91.282.423	755.–

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
double face

Type series
282

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor Clocks
double face

Indoor
analog
double face

Type series
282

81.**282**.332 shown

Double face clocks for all places where time must be readable from either side. Robust metal, fit everywhere!

Suffix **–37**

Metal cover for wall or ceiling mounting brackets available as an option

71.**282**.333 **–30**

Clock case with lugs (option) for suspension by metal ropes or chains

Case
- cir. 285 x 285 mm
- cir. 335 x 335 mm
- cir. 435 x 435 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, the case may be enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
As an option, a stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) is available in a matted finish.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of very sturdy wall or ceiling mounting brackets, standard length cir. 150 mm. For custom lengths or custom mounting options see table below.

Front glasses
Flat, shock-resistant Plexiglas® XT for outstandingly clear visibility.

Faces
High distinction white metal with black fine-line markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hands.
No second hands on DCF77 and *AirPort24* radio controlled clocks and on minute pulse 12...60 V controlled slave clocks.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

▼ Clock type	Face diameter ▶ Mounting ▼	250 x 250 mm Item No.	€ each	300 x 300 mm Item No.	€ each	400 x 400 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V [1) 2)]	wall	51.282.232	675.–	51.282.332	745.–	51.282.432	825.–
	ceiling	51.282.233	675.–	51.282.333	745.–	51.282.433	825.–
DCF77 radio controlled clock, mains operated 230 V AC [2)]	wall	52.282.232	715.–	52.282.332	785.–	52.282.432	865.–
	ceiling	52.282.233	715.–	52.282.333	785.–	52.282.433	865.–
Slave clock, minute pulse 12...60 V	wall	71.282.232	419.–	71.282.332	459.–	71.282.432	539.–
	ceiling	71.282.233	419.–	71.282.333	459.–	71.282.433	539.–
Slave clock, minute/second pulse 12/24 V	wall	72.282.232	869.–	72.282.332	909.–	72.282.432	989.–
	ceiling	72.282.233	869.–	72.282.333	909.–	72.282.433	989.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	74.282.232	1,239.–	74.282.332	1,279.–	74.282.432	1,359.–
	ceiling	74.282.233	1,239.–	74.282.333	1,279.–	74.282.433	1,359.–
Slave clock, second pulse 12/24 V, with creeping minute hand	wall	75.282.232	1,189.–	75.282.332	1,229.–	75.282.432	1,309.–
	ceiling	75.282.233	1,189.–	75.282.333	1,229.–	75.282.433	1,309.–
Telegram slave clock, *DCFport24*	wall	81.282.232	465.–	81.282.332	505.–	81.282.432	585.–
	ceiling	81.282.233	465.–	81.282.333	505.–	81.282.433	585.–
RC telegram slave clock, *AirPort24*, battery operated 1.5 V [1)]	wall	84.282.232	685.–	84.282.332	725.–	84.282.432	805.–
	ceiling	84.282.233	685.–	84.282.333	725.–	84.282.433	805.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.282.232	725.–	85.282.332	765.–	85.282.432	845.–
	ceiling	85.282.233	725.–	85.282.333	765.–	85.282.433	845.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3)]	wall	91.282.232	635.–	91.282.332	675.–	91.282.432	755.–
	ceiling	91.282.233	635.–	91.282.333	675.–	91.282.433	755.–

Options	250 x 250 mm Suffix	Surcharge € each	300 x 300 mm Suffix	Surcharge € each	400 x 400 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	45.–	-05	49.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	45.–	-06	49.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Detachable ceiling mounting (length acc. to customer's choice)	-29	on request	-29	on request	-29	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Metal cover for wall or ceiling mounting brackets	-37	39.–	-37	39.–	-37	39.–
Stainless steel cover V2A for wall or ceiling mounting brackets	-38	95.–	-38	95.–	-38	95.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog
double face

Type series
282

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Large space
analog
single face
double face
four faces

Clocks for Large Spaces

analog · single face, double face, four faces

Large rooms with high ceilings and large halls require large clocks that can be read free of doubt from long distances. Correct time at a single glance. You have our guarantee!

Clocks for Large Spaces
single face, indoor

Large spaces call for large clocks!
Exact time, clearly readable.

Case
■ cir. 500 mm diameter
very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Front glass
Domed shock-resistant Plexiglas® XT. As an option, low reflectivity front glass is available.

Face
High distinction white metal with large black Arabic numerals or large black DIN bar markings for easy, doubt-free reading even over longer distances.
Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands.

Red second hand on slave clocks with minute/second pulse (**72**.xxx) and on slave clocks with synchronous second hands (**74**.xxx) only.

71.**330**.521 shown

Clock type	Arabic numerals Item No.	€ each	Bar markings Item No.	€ each
DCF77 radio controlled clock, battery op. 2 x 1,5 V[1) 2)]	51.**330**.511	**750.–**	51.**330**.521	**750.–**
DCF77 radio controlled clock, mains operated 230 VAC, with outage reserve	52.**330**.511	**790.–**	52.**330**.521	**790.–**
Slave clock, minute pulse 12...60 V	71.**330**.511	**475.–**	71.**330**.521	**475.–**
Slave clock, minute/second pulse 12/24 V	72.**330**.511	**700.–**	72.**330**.521	**700.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.**330**.511	**885.–**	74.**330**.521	**885.–**
Telegram slave clock, *DCFport24*, 24 V	81.**330**.511	**559.–**	81.**330**.521	**559.–**
RC telegram slave clock, *AirPort24*, battery op. 1.5 V[1)]	84.**330**.511	**684.–**	84.**330**.521	**684.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.**330**.511	**724.–**	85.**330**.521	**724.–**
NTP system clock (NTP client), synch. by LAN, PoE[3)]	91.**330**.511	**789.–**	91.**330**.521	**789.–**

Options	Suffix	Surcharge € each	Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**49.–**	**-05**	**49.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**49.–**	**-06**	**49.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**
Low reflectivity front glass	**-50**	**on request**	**-50**	**on request**

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

81.**330**.511

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Large space
analog
single face

Type series
330

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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Clocks for Large Spaces
double face, indoor

Large space
analog
double face

Type series
332

71.**332**.522 shown

Double face indoor clocks in an extremely sturdy version – **solid, industrial grade metal cases** with sturdy wall brackets or suspended from the ceiling, shock-resistant Plexiglas® XT front glasses.
The best decision for a reliable and durable product!

52.**332**.513

▲ Ceiling mount double bracket design, optionally available in custom length

81.**332**.514

Tube version for suspension from the ceiling, tube optionally available in custom length ▶

Case
■ cir. 500 mm diameter, very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, standard bracket length cir. 210 mm, or sturdy metal tube suspension from the ceiling, tube length cir. 500 mm.
Rim and mounting fixtures enamelled metallic dark gun metal (DB 703).

Front glasses
Domed shock-resistant Plexiglas® XT.
As an option, low reflectivity front glasses are available.

Faces
High distinction white metal with large black Arabic numerals or large black DIN bar markings for easy, doubt-free reading even over longer distances.
Faces printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands.
Red second hands on slave clocks with minute/second pulse (**72**.xxx) and on slave clocks with synchronous second hands (**74**.xxx) only.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Clock type		Arabic numerals Item No.	€ each	Bar markings Item No.	€ each
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	wall	51.**332**.512	**1,495.–**	51.**332**.522	**1,495.–**
	ceiling	51.**332**.513	**1,495.–**	51.**332**.523	**1,495.–**
	tube	51.**332**.514	**1,495.–**	51.**332**.524	**1,495.–**
DCF77 radio controlled clock, mains operated 230 V AC[2)]	wall	52.**332**.512	**1,535.–**	52.**332**.522	**1,535.–**
	ceiling	52.**332**.513	**1,535.–**	52.**332**.523	**1,535.–**
	tube	52.**332**.514	**1,535.–**	52.**332**.524	**1,535.–**
Slave clock, minute pulse 12...60 V	wall	71.**332**.512	**1,159.–**	71.**332**.522	**1,159.–**
	ceiling	71.**332**.513	**1,159.–**	71.**332**.523	**1,159.–**
	tube	71.**332**.514	**1,159.–**	71.**332**.524	**1,159.–**
Slave clock, minute/second pulse 12/24 V	wall	72.**332**.512	**1,609.–**	72.**332**.522	**1,609.–**
	ceiling	72.**332**.513	**1,609.–**	72.**332**.523	**1,609.–**
	tube	72.**332**.514	**1,609.–**	72.**332**.524	**1,609.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	wall	74.**332**.512	**1,979.–**	74.**332**.522	**1,979.–**
	ceiling	74.**332**.513	**1,979.–**	74.**332**.523	**1,979.–**
	tube	74.**332**.514	**1,979.–**	74.**332**.524	**1,979.–**
Telegram slave clock, *DCFport24*, 24 V	wall	81.**332**.512	**1,275.–**	81.**332**.522	**1,275.–**
	ceiling	81.**332**.513	**1,275.–**	81.**332**.523	**1,275.–**
	tube	81.**332**.514	**1,275.–**	81.**332**.524	**1,275.–**
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	wall	84.**332**.512	**1,425.–**	84.**332**.522	**1,425.–**
	ceiling	84.**332**.513	**1,425.–**	84.**332**.523	**1,425.–**
	tube	84.**332**.514	**1,425.–**	84.**332**.524	**1,425.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.**332**.512	**1,465.–**	85.**332**.522	**1,465.–**
	ceiling	85.**332**.513	**1,465.–**	85.**332**.523	**1,465.–**
	tube	85.**332**.514	**1,465.–**	85.**332**.524	**1,465.–**
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.**332**.512	**1,505.–**	91.**332**.522	**1,505.–**
	ceiling	91.**332**.513	**1,505.–**	91.**332**.523	**1,505.–**
	tube	91.**332**.514	**1,505.–**	91.**332**.524	**1,505.–**

Options	Suffix	Surcharge € each	Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**79.–**	**-05**	**79.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**79.–**	**-06**	**79.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**
Case fitted with lugs for suspension by ropes or chains	**-30**	**none**	**-30**	**none**
Custom length mounting brackets	**-31**	**on request**	**-31**	**on request**
Low reflectivity front glasses	**-51**	**on request**	**-51**	**on request**

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Large space
analog
double face

Type series
332

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
single face, indoor

Large space
analog
single face

Type series
350

71.**350**.511 shown

Large spaces call for large clocks! Extremely sturdy clocks with **solid, industrial grade metal cases**. Doubt-free reading of the exact time from afar – at any time.

Also available in a version resistant to thrown balls, according to DIN 18032, part 3.

52.**350**.511 **–06**

▲ Case enamelled dark gun metal (DB703) as an option

Outdoor clocks resistant to thrown balls
see pages
150 and 151.

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Resistance to thrown balls acc. to DIN 18032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for gymnasiums and other sporting facilities. Very sturdy case with three-point mounting as a safeguard, proof against wrenching off the hook. Front glass is a 2-layer laminated safety glass, 6 mm thick. The clocks are certified and labelled "resistant to thrown balls according to DIN 18032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black Arabic numerals for easy, doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm and 620 mm respectively. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092.
Red second hand on synchronous clocks (**21**.xxx), on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Large space
analog
single face

Type series
350

Clock type	Face diameter ▶ 420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
Synchronous clock, mains operated 230 V AC/50 Hz	21.350.411	535.–	21.350.511	655.–	21.350.611	770.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	51.350.411	830.–	51.350.511	949.–	51.350.611	1,125.–
DCF77 radio controlled clock, mains operated 230 V AC[2)]	52.350.411	870.–	52.350.511	989.–	52.350.611	1,165.–
Slave clock, minute pulse 12...60 V	71.350.411	499.–	71.350.511	619.–	71.350.611	734.–
Slave clock, minute/second pulse 12/24 V	72.350.411	724.–	72.350.511	844.–	72.350.611	959.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.350.411	909.–	74.350.511	1,029.–	74.350.611	1,144.–
Telegram slave clock, *DCFport24*, 24 V	81.350.411	589.–	81.350.511	709.–	81.350.611	824.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	84.350.411	714.–	84.350.511	834.–	84.350.611	949.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.350.411	754.–	85.350.511	874.–	85.350.611	989.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	91.350.411	819.–	91.350.511	939.–	91.350.611	1,054.–

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic dark gun metal DB 703	-06	none	-06	none	-06	none
Case custom enamelled	-10	on request	-10	on request	-10	on request
Packaging against dust and spray (IP 54)	-54	80.–	-54	80.–	-54	80.–
Resistance to thrown balls acc. to DIN 18032, part 3	-59	179.–	-59	179.–	-59	179.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
dark gun metal DB 703	-06
custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Outdoor clocks resistant to thrown balls
see pages 150 and 151.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
single face, indoor

Large space
analog
single face

Type series
350

71.**350**.521 shown

Large spaces call for large clocks! Extremely sturdy clocks with **solid, industrial grade metal cases**. Doubt-free reading of the exact time from afar – at any time.

Also available in a version resistant to thrown balls, according to DIN 18032, part 3.

52.**350**.521 **–06**

▲ Case enamelled dark gun metal (DB703) as an option

Outdoor clocks resistant to thrown balls
see pages
150 and 151.

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Resistance to thrown balls acc. to DIN 18032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for gymnasiums and other sporting facilities. Very sturdy case with three-point mounting as a safeguard, proof against wrenching off the hook. Front glass is a 2-layer laminated safety glass, 6 mm thick. The clocks are certified and labelled "resistant to thrown balls according to DIN 18032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm and 620 mm respectively. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092.
Red second hand on synchronous clocks (**21**.xxx), on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Large space
analog
single face

Type series
350

Clock type	Face diameter ▶ 420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
Synchronous clock, mains operated 230 V AC/50 Hz	21.350.421	535.–	21.350.521	655.–	21.350.621	770.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	51.350.421	830.–	51.350.521	949.–	51.350.621	1,125.–
DCF77 radio controlled clock, mains operated 230 V AC[2)]	52.350.421	870.–	52.350.521	989.–	52.350.621	1,165.–
Slave clock, minute pulse 12...60 V	71.350.421	499.–	71.350.521	619.–	71.350.621	734.–
Slave clock, minute/second pulse 12/24 V	72.350.421	724.–	72.350.521	844.–	72.350.621	959.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.350.421	909.–	74.350.521	1,029.–	74.350.621	1,144.–
Telegram slave clock, *DCFport24*, 24 V	81.350.421	589.–	81.350.521	709.–	81.350.621	824.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	84.350.421	714.–	84.350.521	834.–	84.350.621	949.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.350.421	754.–	85.350.521	874.–	85.350.621	989.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	91.350.421	819.–	91.350.521	939.–	91.350.621	1,054.–

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic dark gun metal DB 703	-06	none	-06	none	-06	none
Case custom enamelled	-10	on request	-10	on request	-10	on request
Packaging against dust and spray (IP 54)	-54	80.–	-54	80.–	-54	80.–
Resistance to thrown balls acc. to DIN 18032, part 3	-59	179.–	-59	179.–	-59	179.–

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
dark gun metal DB 703	-06
? custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Outdoor clocks resistant to thrown balls
see pages 150 and 151.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
double face, indoor

Large space
analog
double face

Type series
352

71.**352**.512 shown

Large spaces call for large clocks! Extremely sturdy clocks with **solid, industrial grade metal cases**. Doubt-free reading of the exact time from afar – at any time.

81.**352**.513-**06**

▲ Ceiling mount double bracket design and case enamelled in metallic dark gun metal (DB703) as an option

91.**352**.614

Tube version for suspension from the ceiling ▶

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, standard bracket length cir. 210 mm, or sturdy metal tube suspension from the ceiling, tube length cir. 1000 mm. On request, custom length available optionally.
As an option, available with lugs for suspension by ropes or chains.

Front glasses
Flat shock-resistant Plexiglas® XT (PMMA).

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Faces
High distinction white metal with large black Arabic numerals for easy, doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm and 620 mm respectively. Faces printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092
Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only

Large space
analog
double face

Type series
352

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Clock type	Face diameter ▶	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	wall	51.**352**.412	**1,544.–**	51.**352**.512	**1,695.–**	51.**352**.612	**1,899.–**
	ceiling	51.**352**.413	**1,544.–**	51.**352**.513	**1,695.–**	51.**352**.613	**1,899.–**
	tube	51.**352**.414	**1,644.–**	51.**352**.514	**1,795.–**	51.**352**.614	**1,999.–**
DCF77 radio controlled clock, mains operated 230 VAC[2)]	wall	52.**352**.412	**1,584.–**	52.**352**.512	**1,735.–**	52.**352**.612	**1,939.–**
	ceiling	52.**352**.413	**1,584.–**	52.**352**.513	**1,735.–**	52.**352**.613	**1,939.–**
	tube	52.**352**.414	**1,684.–**	52.**352**.514	**1,835.–**	52.**352**.614	**2,039.–**
Slave clock, minute pulse 12...60 V	wall	71.**352**.412	**1,195.–**	71.**352**.512	**1,345.–**	71.**352**.612	**1,545.–**
	ceiling	71.**352**.413	**1,195.–**	71.**352**.513	**1,345.–**	71.**352**.613	**1,545.–**
	tube	71.**352**.414	**1,295.–**	71.**352**.514	**1,445.–**	71.**352**.614	**1,645.–**
Slave clock, minute/second pulse 12/24 V	wall	72.**352**.412	**1,645.–**	72.**352**.512	**1,795.–**	72.**352**.612	**1,995.–**
	ceiling	72.**352**.413	**1,645.–**	72.**352**.513	**1,795.–**	72.**352**.613	**1,995.–**
	tube	72.**352**.414	**1,745.–**	72.**352**.514	**1,895.–**	72.**352**.614	**2,095.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.**352**.412	**2,015.–**	74.**352**.512	**2,165.–**	74.**352**.612	**2,365.–**
	ceiling	74.**352**.413	**2,015.–**	74.**352**.513	**2,165.–**	74.**352**.613	**2,365.–**
	tube	74.**352**.414	**2,115.–**	74.**352**.514	**2,265.–**	74.**352**.614	**2,465.–**
Telegram slave clock, *DCFport24*, 24 V	wall	81.**352**.412	**1,309.–**	81.**352**.512	**1,459.–**	81.**352**.612	**1,660.–**
	ceiling	81.**352**.413	**1,309.–**	81.**352**.513	**1,459.–**	81.**352**.613	**1,660.–**
	tube	81.**352**.414	**1,409.–**	81.**352**.514	**1,559.–**	81.**352**.614	**1,760.–**
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	wall	84.**352**.412	**1,459.–**	84.**352**.512	**1,609.–**	84.**352**.612	**1,810.–**
	ceiling	84.**352**.413	**1,459.–**	84.**352**.513	**1,609.–**	84.**352**.613	**1,810.–**
	tube	84.**352**.414	**1,559.–**	84.**352**.514	**1,709.–**	84.**352**.614	**1,910.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**352**.412	**1,499.–**	85.**352**.512	**1,649.–**	85.**352**.612	**1,850.–**
	ceiling	85.**352**.413	**1,499.–**	85.**352**.513	**1,649.–**	85.**352**.613	**1,850.–**
	tube	85.**352**.414	**1,599.–**	85.**352**.514	**1,749.–**	85.**352**.614	**1,950.–**
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.**352**.412	**1,539.–**	91.**352**.512	**1,689.–**	91.**352**.612	**1,890.–**
	ceiling	91.**352**.413	**1,539.–**	91.**352**.513	**1,689.–**	91.**352**.613	**1,890.–**
	tube	91.**352**.414	**1,639.–**	91.**352**.514	**1,789.–**	91.**352**.614	**1,990.–**

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**	**-06**	**none**	**-06**	**none**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
Case with lugs for suspension by ropes or chains	**-30**	**none**	**-30**	**none**	**-30**	**none**
Custom length mounting fixture	**-31**	**on request**	**-31**	**on request**	**-31**	**on request**
Packaging against dust and spray (IP 54)	**-54**	**150.–**	**-54**	**150.–**	**-54**	**150.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
double face, indoor

Large space
analog
double face

Type series
352

71.**352**.522 shown

Large spaces call for large clocks! Extremely sturdy clocks with **solid, industrial grade metal cases**. Doubt-free reading of the exact time from afar – at any time.

52.**352**.523 **-06**

▲ Ceiling mount double bracket design and case enamelled in metallic dark gun metal (DB703) as an option

Tube version for suspension from the ceiling ▶

91.**352**.624

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic silver grey (RAL 9006) or, as an option, enamelled in dark gun metal (DB 703) or custom enamelled, as listed below.
Protection grade IP 40 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, standard bracket length cir. 210 mm, or sturdy metal tube suspension from the ceiling, tube length cir. 1000 mm. On request, custom length available optionally.
As an option, available with lugs for suspension by ropes or chains.

Front glasses
Flat shock-resistant Plexiglas® XT (PMMA).

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Faces
High distinction white metal with large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm and 620 mm respectively. Faces printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092
Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Large space
analog
double face

Type series
352

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Clock type	Face diameter ▶	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	wall	51.**352**.422	**1,544.–**	51.**352**.522	**1,695.–**	51.**352**.622	**1,899.–**
	ceiling	51.**352**.423	**1,544.–**	51.**352**.523	**1,695.–**	51.**352**.623	**1,899.–**
	tube	51.**352**.424	**1,644.–**	51.**352**.524	**1,795.–**	51.**352**.624	**1,999.–**
DCF77 radio controlled clock, mains operated 230 VAC[2)]	wall	52.**352**.422	**1,584.–**	52.**352**.522	**1,735.–**	52.**352**.622	**1,939.–**
	ceiling	52.**352**.423	**1,584.–**	52.**352**.523	**1,735.–**	52.**352**.623	**1,939.–**
	tube	52.**352**.424	**1,684.–**	52.**352**.524	**1,835.–**	52.**352**.624	**2,039.–**
Slave clock, minute pulse 12...60 V	wall	71.**352**.422	**1,195.–**	71.**352**.522	**1,345.–**	71.**352**.622	**1,545.–**
	ceiling	71.**352**.423	**1,195.–**	71.**352**.523	**1,345.–**	71.**352**.623	**1,545.–**
	tube	71.**352**.424	**1,295.–**	71.**352**.524	**1,445.–**	71.**352**.624	**1,645.–**
Slave clock, minute/second pulse 12/24 V	wall	72.**352**.422	**1,645.–**	72.**352**.522	**1,795.–**	72.**352**.622	**1,995.–**
	ceiling	72.**352**.423	**1,645.–**	72.**352**.523	**1,795.–**	72.**352**.623	**1,995.–**
	tube	72.**352**.424	**1,745.–**	72.**352**.524	**1,895.–**	72.**352**.624	**2,095.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.**352**.422	**2,015.–**	74.**352**.522	**2,165.–**	74.**352**.622	**2,365.–**
	ceiling	74.**352**.423	**2,015.–**	74.**352**.523	**2,165.–**	74.**352**.623	**2,365.–**
	tube	74.**352**.424	**2,115.–**	74.**352**.524	**2,265.–**	74.**352**.624	**2,465.–**
Telegram slave clock, *DCFport24*, 24 V	wall	81.**352**.422	**1,309.–**	81.**352**.522	**1,459.–**	81.**352**.622	**1,660.–**
	ceiling	81.**352**.423	**1,309.–**	81.**352**.523	**1,459.–**	81.**352**.623	**1,660.–**
	tube	81.**352**.424	**1,409.–**	81.**352**.524	**1,559.–**	81.**352**.624	**1,760.–**
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	wall	84.**352**.422	**1,459.–**	84.**352**.522	**1,609.–**	84.**352**.622	**1,810.–**
	ceiling	84.**352**.423	**1,459.–**	84.**352**.523	**1,609.–**	84.**352**.623	**1,810.–**
	tube	84.**352**.424	**1,559.–**	84.**352**.524	**1,709.–**	84.**352**.624	**1,910.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**352**.422	**1,499.–**	85.**352**.522	**1,649.–**	85.**352**.622	**1,850.–**
	ceiling	85.**352**.423	**1,499.–**	85.**352**.523	**1,649.–**	85.**352**.623	**1,850.–**
	tube	85.**352**.424	**1,599.–**	85.**352**.524	**1,749.–**	85.**352**.624	**1,950.–**
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.**352**.422	**1,539.–**	91.**352**.522	**1,689.–**	91.**352**.622	**1,890.–**
	ceiling	91.**352**.423	**1,539.–**	91.**352**.523	**1,689.–**	91.**352**.623	**1,890.–**
	tube	91.**352**.424	**1,639.–**	91.**352**.524	**1,789.–**	91.**352**.624	**1,990.–**

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic dark gun metal DB 703	**-06**	**none**	**-06**	**none**	**-06**	**none**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
Case with lugs for suspension by ropes or chains	**-30**	**none**	**-30**	**none**	**-30**	**none**
Custom length mounting fixture	**-31**	**on request**	**-31**	**on request**	**-31**	**on request**
Packaging against dust and spray (IP 54)	**-54**	**150.–**	**-54**	**150.–**	**-54**	**150.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces

flush-mounted in walls, indoor

Large space
analog
flush-mounted

Type series
369

72.**369**.510 shown

Clocks of this type series are excellently suited for all applications requiring large clocks with **solid, industrial grade metal cases** mounted flush with a wall surface.

Also available in a version resistant to thrown balls, according to DIN 18032, part 3.

72.**369**.510 **-22**

▲ Clock cases made of stainless steel V4A, blasted and varnished (optional) are resistant to saline or chlorous media. Excellently suited for permanent use in public swimming pools.

Case
- Faceplate cir. 460 x 460 mm
- Faceplate cir. 560 x 560 mm
- Faceplate cir. 660 x 660 mm

very sturdy metal case for flush mounting in walls, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below. A stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, is available as an option. Protection grade IP 40 (EN 60 529).

Mounting
These clocks are to be mounted flush with the wall surface and require a recess of (W x H x D)
- cir. 406 x 406 x 80 mm
- cir. 506 x 506 x 80 mm
- cir. 606 x 606 x 80 mm.

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for schools, gymnasiums and other sporting facilities. Very sturdy metal case with 6 mm two-ply laminated mineral safety glass. These clocks conform to German Industry Standard and are certified and labelled "resistant to thrown balls according to DIN 18 032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black Arabic numerals for easy, doubt-free reading even over longer distances. Visible print diameters are cir. 335 mm, 420 mm, and 503 mm respectively. Face printed according to DIN 41 091.

Hands:
Black bar-type hour and minute hands.
Red second hand on minute/second pulse slave clocks (**72**.xxx) only.

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Large space
analog
flush-mounted

Type series
369

Clock type ▶ Face dimensions	400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [2]	52.**369**.410	**959.–**	52.**369**.510	**1,079.–**	52.**369**.610	**1,209.–**
Slave clock, minute pulse 12...60 V	71.**369**.410	**589.–**	71.**369**.510	**709.–**	71.**369**.610	**839.–**
Slave clock, minute/second pulse 12/24 V	72.**369**.410	**814.–**	72.**369**.510	**934.–**	72.**369**.610	**1,064.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**369**.410	**999.–**	74.**369**.510	**1,119.–**	74.**369**.610	**1,249.–**
Telegram slave clock, *DCFport24*, 24 V	81.**369**.410	**610.–**	81.**369**.510	**799.–**	81.**369**.610	**929.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**369**.410	**844.–**	85.**369**.510	**964.–**	85.**369**.610	**1,094.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	91.**369**.410	**759.–**	91.**369**.510	**1,029.–**	91.**369**.610	**1,159.–**

Options	400 x 400 mm Suffix	Surcharge € each	500 x 500 mm Suffix	Surcharge € each	600 x 600 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**39.–**	**-05**	**49.–**	**-05**	**59.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**39.–**	**-06**	**49.–**	**-06**	**59.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
Case stainless steel V4A, blasted and varnished	**-22**	**on request**	**-22**	**on request**	**-22**	**on request**
Custom logo on clock face	**-47**	**on request**	**-47**	**on request**	**-47**	**on request**
Packaging against dust and spray (IP 54)	**-54**	**80.–**	**-54**	**80.–**	**-54**	**80.–**
Resistance to thrown balls acc. to DIN 18032, part 3	**-59**	**179.–**	**-59**	**179.–**	**-59**	**179.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
custom enamelled	**-10**
stainless steel V4A + clear varnish	**-22**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces

flush-mounted in walls, indoor

Large space
analog
flush-mounted

Type series
369

71.**369**.520 shown

Clocks of this type series are excellently suited for all applications requiring large clocks with **solid, industrial grade metal cases** mounted flush with a wall surface.

Also available in a version resistant to thrown balls, according to DIN 18032, part 3.

72.**369**.520 **-05**

▲ Case enamelled in metallic silver grey (RAL 9006) available as an option

Case
- Faceplate cir. 460 x 460 mm
- Faceplate cir. 560 x 560 mm
- Faceplate cir. 660 x 660 mm

very sturdy metal case for flush mounting in walls, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below. A stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, is available as an option. Protection grade IP 40 (EN 60 529).

Mounting
These clocks are to be mounted flush with the wall surface and require a recess of (W x H x D)
- cir. 406 x 406 x 80 mm
- cir. 506 x 506 x 80 mm
- cir. 606 x 606 x 80 mm.

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for schools, gymnasiums and other sporting facilities. Very sturdy metal case with 6 mm two-ply laminated mineral safety glass. These clocks conform to German Industry Standard and are certified and labelled "resistant to thrown balls according to DIN 18 032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible print diameters are cir. 335 mm, 420 mm, and 503 mm respectively. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092.
Red second hand on minute/second pulse slave clocks (**72**.xxx) only.

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Large space
analog
flush-mounted

Type series
369

Clock type ▶ Face dimensions	400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [2]	52.**369**.420	**959.–**	52.**369**.520	**1,079.–**	52.**369**.620	**1,209.–**
Slave clock, minute pulse 12...60 V	71.**369**.420	**589.–**	71.**369**.520	**709.–**	71.**369**.620	**839.–**
Slave clock, minute/second pulse 12/24 V	72.**369**.420	**814.–**	72.**369**.520	**934.–**	72.**369**.620	**1,064.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**369**.420	**999.–**	74.**369**.520	**1,119.–**	74.**369**.620	**1,249.–**
Telegram slave clock, *DCFport24*, 24 V	81.**369**.420	**610.–**	81.**369**.520	**799.–**	81.**369**.620	**929.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**369**.420	**844.–**	85.**369**.520	**964.–**	85.**369**.620	**1,094.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	91.**369**.420	**759.–**	91.**369**.520	**1,029.–**	91.**369**.620	**1,159.–**

Options	400 x 400 mm Suffix	Surcharge € each	500 x 500 mm Suffix	Surcharge € each	600 x 600 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**39.–**	**-05**	**49.–**	**-05**	**59.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**39.–**	**-06**	**49.–**	**-06**	**59.–**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**
Case stainless steel V4A, blasted and varnished	**-22**	**on request**	**-22**	**on request**	**-22**	**on request**
Custom logo on clock face	**-47**	**on request**	**-47**	**on request**	**-47**	**on request**
Packaging against dust and spray (IP 54)	**-54**	**80.–**	**-54**	**80.–**	**-54**	**80.–**
Resistance to thrown balls acc. to DIN 18032, part 3	**-59**	**179.–**	**-59**	**179.–**	**-59**	**179.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
custom enamelled	**-10**
stainless steel V4A + clear varnish	**-22**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces

on-wall mounting, indoor

Large space
analog
single face

Type series
370

Clocks of this type series are excellently suited for all applications requiring large clocks with **solid, industrial grade metal cases** combined with a doubt-free readability.

They are also available "resistant to thrown balls" according to DIN 18032, part 3.

▲ Clock cases made of stainless steel V4A, blasted and varnished (optional) are resistant to saline or chlorous media. Excellently suited for permanent use in public swimming pools.

Case
- cir. 400 x 400 mm
- cir. 500 x 500 mm
- cir. 600 x 600 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, custom enamelled, as listed below. A stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) with a matted finish or a stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, are available as options. Protection grade IP 40 (EN 60 529).

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for schools, gymnasiums and other sporting facilities. Very sturdy metal case with 6 mm two-ply laminated mineral safety glass. These clocks conform to German Industry Standard and are certified and labelled "resistant to thrown balls according to DIN 18 032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black Arabic numerals for easy, doubt-free reading even over longer distances. Visible print diameters are 335 mm, 420 mm, and 503 mm respectively. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands.

Red second hand on synchronous clocks (**21**.xxx), on slave clocks with minute/second pulse (**72**.xxx) and on slave clocks with synchronous second hands (**74**.xxx) only.

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Clock type ▶ Face dimensions	400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
Synchronous clock, mains operated 230 VAC/50 Hz	21.370.411	485.–	21.370.511	615.–	21.370.611	745.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	51.370.411	489.–	51.370.511	909.–	51.370.611	1,039.–
DCF77 radio controlled clock, mains operated 230 VAC[2)]	52.370.411	569.–	52.370.511	949.–	52.370.611	1,079.–
Slave clock, minute pulse 12...60 V	71.370.411	459.–	71.370.511	579.–	71.370.611	709.–
Slave clock, minute/second pulse 12/24 V	72.370.411	684.–	72.370.511	804.–	72.370.611	934.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.370.411	869.–	74.370.511	989.–	74.370.611	1,119.–
Telegram slave clock, *DCFport24*, 24 V	81.370.411	480.–	81.370.511	669.–	81.370.611	799.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	84.370.411	584.–	84.370.511	794.–	84.370.611	924.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.370.411	644.–	85.370.511	834.–	85.370.611	964.–
NTP system clock (NTP client), synchronisation by LAN, PoE[2)]	91.370.411	629.–	91.370.511	899.–	91.370.611	1,029.–

Options	400 x 400 mm Suffix	Surcharge € each	500 x 500 mm Suffix	Surcharge € each	600 x 600 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	49.–	-05	59.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	49.–	-06	59.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Case stainless steel V4A, blasted and varnished	-22	on request	-22	on request	-22	on request
Custom logo on clock face	-47	on request	-47	on request	-47	on request
Packaging against dust and spray (IP 54)	-54	80.–	-54	80.–	-54	80.–
Resistance to thrown balls acc. to DIN 18032, part 3	-59	179.–	-59	179.–	-59	179.–
External DCF77 receiving aerial (cannot be added later)	-60	169.–		fitted as standard		fitted as standard

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20
stainless steel V4A + clear varnish	-22

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment. (Exception: 51.370.**421**, 52.370.**421**)
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Large space
analog
single face

Type series
370

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces

on-wall mounting, indoor

Large space
analog
single face

Type series
370

71.**370**.621 shown

Clocks of this type series are excellently suited for all applications requiring large clocks with **solid, industrial grade metal cases** combined with a doubt-free readability.

They are also available "resistant to thrown balls" according to DIN 18032, part 3.

81.**370**.521 **-06**

▲ Case enamelled dark gun metal (DB703) available as an option

Case
- cir. 400 x 400 mm
- cir. 500 x 500 mm
- cir. 600 x 600 mm

very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, custom enamelled, as listed below. A stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) with a matted finish or a stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, are available as options. Protection grade IP 40 (EN 60 529).

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for schools, gymnasiums and other sporting facilities. Very sturdy metal case with 6 mm two-ply laminated mineral safety glass. These clocks conform to German Industry Standard and are certified and labelled "resistant to thrown balls according to DIN 18 032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Face
High distinction white metal with large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible print diameters are 335 mm, 420 mm, and 503 mm respectively. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092.

Red second hands on synchronous clocks (**21**.xxx), on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Large space
analog
single face

Type series
370

Clock type	Face dimensions ▶ 400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
Synchronous clock, mains operated 230 VAC/50 Hz	21.370.421	485.–	21.370.521	615.–	21.370.621	745.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	51.370.421	489.–	51.370.521	909.–	51.370.621	1,039.–
DCF77 radio controlled clock, mains operated 230 VAC[2)]	52.370.421	569.–	52.370.521	949.–	52.370.621	1,079.–
Slave clock, minute pulse 12...60 V	71.370.421	459.–	71.370.521	579.–	71.370.621	709.–
Slave clock, minute/second pulse 12/24 V	72.370.421	684.–	72.370.521	804.–	72.370.621	934.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.370.421	869.–	74.370.521	989.–	74.370.621	1,119.–
Telegram slave clock, *DCFport24*, 24 V	81.370.421	480.–	81.370.521	669.–	81.370.621	799.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	84.370.421	584.–	84.370.521	794.–	84.370.621	924.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.370.421	644.–	85.370.521	834.–	85.370.621	964.–
NTP system clock (NTP client), synchronisation by LAN, PoE[2)]	91.370.421	629.–	91.370.521	899.–	91.370.621	1,029.–

Options	400 x 400 mm Suffix	Surcharge € each	500 x 500 mm Suffix	Surcharge € each	600 x 600 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	39.–	-05	49.–	-05	59.–
Case enamelled in metallic dark gun metal DB 703	-06	39.–	-06	49.–	-06	59.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Case stainless steel V4A, blasted and varnished	-22	on request	-22	on request	-22	on request
Custom logo on clock face	-47	on request	-47	on request	-47	on request
Packaging against dust and spray (IP 54)	-54	80.–	-54	80.–	-54	80.–
Resistance to thrown balls acc. to DIN 18032, part 3	-59	179.–	-59	179.–	-59	179.–
External DCF77 receiving aerial (cannot be added later)	-60	169.–		fitted as standard		fitted as standard

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	-05
dark gun metal DB 703	-06
custom enamelled	-10
stainless steel V2A	-20
stainless steel V4A + clear varnish	-22

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment. (Exception: 51.370.**421**, 52.370.**421**)
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
double face, indoor

Large space
analog
double face

Type series
372

71.**372**.512 shown

Double face indoor clocks with **solid, industrial grade metal cases** with sturdy wall brackets or suspended from the ceiling, shock-resistant Plexiglas® XT front glasses.
The best decision for a reliable and durable product!

72.**372**.612 **–22**

▲ Clock cases made of stainless steel V4A, blasted and varnished (optional) are resistant to saline or chlorous media. Excellently suited for permanent use in public swimming pools.

Case
- cir. 400 x 400 mm
- cir. 500 x 500 mm
- cir. 600 x 600 mm

very sturdy metal case enamelled white (RAL 9016). Optionally, at a surcharge, custom enamelled, as listed below. A stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) with a matted finish or a stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, are available as options. Protection grade IP 40 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, enamelled white, standard bracket length cir. 250 mm. Also available with lugs for suspension by ropes or chains as an option for larger ceiling heights.

Front glass
Flat shock-resistant Plexiglas® XT (PMMA).

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Faces
High distinction white metal with large black Arabic numerals for easy, doubt-free reading even over longer distances. Visible print diameters are 335 mm, 420 mm, and 503 mm respectively. Faces printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands.

Red second hand on slave clocks with minute/second pulse (**72**.xxx) and on slave clocks with synchronous second hands (**74**.xxx) only.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Large space
analog
double face

Type series
372

Clock type / Face dimensions ▶ / Mounting ▼	400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)] wall	51.372.412	1,624.–	51.372.512	1,855.–	51.372.612	2,079.–
ceiling	51.372.413	1,624.–	51.372.513	1,855.–	51.372.613	2,079.–
DCF77 radio controlled clock, mains operated 230 VAC[2)] wall	52.372.412	1,664.–	52.372.512	1,895.–	52.372.612	2,119.–
ceiling	52.372.413	1,664.–	52.372.513	1,895.–	52.372.613	2,119.–
Slave clock, minute pulse 12...60 V wall	71.372.412	1,275.–	71.372.512	1,505.–	71.372.612	1,725.–
ceiling	71.372.413	1,275.–	71.372.513	1,505.–	71.372.613	1,725.–
Slave clock, minute/second pulse 12/24 V wall	72.372.412	1,725.–	72.372.512	1,955.–	72.372.612	2,175.–
ceiling	72.372.413	1,725.–	72.372.513	1,955.–	72.372.613	2,175.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz wall	74.372.412	2,095.–	74.372.512	2,325.–	74.372.612	2,545.–
ceiling	74.372.413	2,095.–	74.372.513	2,325.–	74.372.613	2,545.–
Telegram slave clock, *DCFport24*, 24 V wall	81.372.412	1,389.–	81.372.512	1,619.–	81.372.612	1,840.–
ceiling	81.372.413	1,389.–	81.372.513	1,619.–	81.372.613	1,840.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)] wall	84.372.412	1,539.–	84.372.512	1,769.–	84.372.612	1,990.–
ceiling	84.372.413	1,539.–	84.372.513	1,769.–	84.372.613	1,990.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve wall	85.372.412	1,579.–	85.372.512	1,809.–	85.372.612	2,030.–
ceiling	85.372.413	1,579.–	85.372.513	1,809.–	85.372.613	2,030.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)] wall	91.372.412	1,619.–	91.372.512	1,849.–	91.372.612	2,070.–
ceiling	91.372.413	1,619.–	91.372.513	1,849.–	91.372.613	2,070.–

Options	400x400mm Suffix	Surcharge € each	500x500mm Suffix	Surcharge € each	600x600mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	95.–	-05	105.–	-05	125.–
Case enamelled in metallic dark gun metal DB 703	-06	95.–	-06	105.–	-06	125.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Case stainless steel V4A, blasted and varnished	-22	on request	-22	on request	-22	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Custom logo on clock face	-47	on request	-47	on request	-47	on request
Packaging against dust and spray (IP 54)	-54	150.–	-54	150.–	-54	150.–

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
double face, indoor

Large space
analog
double face

Type series
372

71.**372**.522 shown

Double face indoor clocks with **solid, industrial grade metal cases** with sturdy wall brackets or suspended from the ceiling, shock-resistant Plexiglas® XT front glasses.
The best decision for a reliable and durable product!

81.**372**.622 **-06**

▲ Case enamelled dark gun metal (DB703) as an option

Case
- cir. 400 x 400 mm
- cir. 500 x 500 mm
- cir. 600 x 600 mm

very sturdy metal case enamelled white (RAL 9016). Optionally, at a surcharge, custom enamelled, as listed below. A stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A) with a matted finish or a stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, are available as options. Protection grade IP 40 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, enamelled white, standard bracket length cir. 250 mm. Also available with lugs for suspension by ropes or chains as an option for larger ceiling heights.

Front glass
Flat shock-resistant Plexiglas® XT (PMMA).

Packaging (option)
As an option, clockwork packaged to protect it against blown dust and/or sprayed water (IP 54 according to EN 60 529) is available.

Faces
High distinction white metal with large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible print diameters are 335 mm, 420 mm, and 503 mm respectively. Faces printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands according to DIN 41 092.

Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Stainless steel V2A (option)
Due to its components stainless steel V2A is an alloy almost completely impervious to detergents and disinfectants and is therefore excellently suited for the use in the food and pharmaceutical industries, in kitchens, laboratories and other clean rooms. And it looks good into the bargain, as well!

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Large space
analog
double face

Type series
372

Clock type	Face dimensions ▶ Mounting ▼	400 x 400 mm Item No.	€ each	500 x 500 mm Item No.	€ each	600 x 600 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 2 x 1.5 V[1) 2)]	wall	51.372.422	1,624.–	51.372.522	1,855.–	51.372.622	2,079.–
	ceiling	51.372.423	1,624.–	51.372.523	1,855.–	51.372.623	2,079.–
DCF77 radio controlled clock, mains operated 230 VAC[2)]	wall	52.372.422	1,664.–	52.372.522	1,895.–	52.372.622	2,119.–
	ceiling	52.372.423	1,664.–	52.372.523	1,895.–	52.372.623	2,119.–
Slave clock, minute pulse 12...60 V	wall	71.372.422	1,275.–	71.372.522	1,505.–	71.372.622	1,725.–
	ceiling	71.372.423	1,275.–	71.372.523	1,505.–	71.372.623	1,725.–
Slave clock, minute/second pulse 12/24 V	wall	72.372.422	1,725.–	72.372.522	1,955.–	72.372.622	2,175.–
	ceiling	72.372.423	1,725.–	72.372.523	1,955.–	72.372.623	2,175.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.372.422	2,095.–	74.372.522	2,325.–	74.372.622	2,545.–
	ceiling	74.372.423	2,095.–	74.372.523	2,325.–	74.372.623	2,545.–
Telegram slave clock, *DCFport24*, 24 V	wall	81.372.422	1,389.–	81.372.522	1,619.–	81.372.622	1,840.–
	ceiling	81.372.423	1,389.–	81.372.523	1,619.–	81.372.623	1,840.–
RC telegram slave clock, *AirPort24*, battery operated 2 x 1,5 V[1)]	wall	84.372.422	1,539.–	84.372.522	1,769.–	84.372.622	1,990.–
	ceiling	84.372.423	1,539.–	84.372.523	1,769.–	84.372.623	1,990.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.372.422	1,579.–	85.372.522	1,809.–	85.372.622	2,030.–
	ceiling	85.372.423	1,579.–	85.372.523	1,809.–	85.372.623	2,030.–
NTP system clock (NTP client), synchronisation by LAN, PoE[3)]	wall	91.372.422	1,619.–	91.372.522	1,849.–	91.372.622	2,070.–
	ceiling	91.372.423	1,619.–	91.372.523	1,849.–	91.372.623	2,070.–

Options	400x400mm Suffix	Surcharge € each	500x500mm Suffix	Surcharge € each	600x600mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	95.–	-05	105.–	-05	125.–
Case enamelled in metallic dark gun metal DB 703	-06	95.–	-06	105.–	-06	125.–
Case custom enamelled	-10	on request	-10	on request	-10	on request
Case stainless steel V2A, matted finish	-20	on request	-20	on request	-20	on request
Case stainless steel V4A, blasted and varnished	-22	on request	-22	on request	-22	on request
Case with lugs for suspension by ropes or chains	-30	on request	-30	on request	-30	on request
Custom logo on clock face	-47	on request	-47	on request	-47	on request
Packaging against dust and spray (IP 54)	-54	150.–	-54	150.–	-54	150.–

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
four faces, indoor

Large space
analog
four faces

Type series
390

71.**390**.415 shown

Clock cubes with **solid, industrial grade metal cases** for large halls or places of high publicity.
Always the correct time, exactly readable from any angle!

91.**390**.425

Backlighted clock cubes
for indoor and outdoor use see pages 164 and 165.

Case
■ edge length cir. 565 mm, with four square faces, cir. 425 x 425 mm sturdy metal cube, enamelled in white (RAL 9016) as standard. Optionally, at a surcharge, enamelled in custom colours. A large hinged inspection flap on the top provides easy access for maintenance.
Protection grade IP 40 (EN 60 529).

Mounting
This clock cube will usually be suspended from the ceiling by metal ropes or chains. Due to varying requirements, ropes or chains are to be procured locally.
Four eyebolts are provided on the top of the case.

Front glasses
Flat shock-resistant Plexiglas® XT (PMMA).

Faces
High distinction white metal with large black Arabic numerals or large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible face dimensions cir. 400 x 400 mm.
Faces printed according to DIN 41 091

Hands
Black bar-type hour and minute hands.
Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Large space
analog
four faces

Type series
390

Clock cubes come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Clock type	Arabic numerals Item No.	€ each	Bar markings Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC [1]	52.**390**.415	**2,195.–**	52.**390**.425	**2,195.–**
Slave clock, minute pulse 12...60 V	71.**390**.415	**1,850.–**	71.**390**.425	**1,850.–**
Slave clock, minute/second pulse 12/24 V	72.**390**.415	**2,750.–**	72.**390**.425	**2,750.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**390**.415	**3,490.–**	74.**390**.425	**3,490.–**
Telegram slave clock, *DCFport24*, 24 V	81.**390**.415	**1,989.–**	81.**390**.425	**1,989.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**390**.415	**2,219.–**	85.**390**.425	**2,219.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	91.**390**.415	**2,249.–**	91.**390**.425	**2,249.–**

Options	Arab. num. Suffix	Surcharge € each	Bar mark. Suffix	Surcharge € each
Cube custom enamelled	**-13**	**on request**	**-13**	**on request**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

Backlighted clock cubes
for indoor and outdoor use see pages 164 and 165.

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Clocks for Large Spaces
four faces, indoor

Large space
analog
four faces

Type series
395

74.**395**.525 **-16** shown

Clock cubes with **solid, industrial grade metal cases** for large halls or places of high publicity.
Always the correct time, exactly readable from any angle!

74.**395**.525 **-13 -16**

▲ Case custom enamelled (option)

Backlighted clock cubes
for indoor and outdoor use see pages 164 and 165.

Case
- edge length cir. 500 mm, with four round faces, diameter cir. 400 mm
- edge length cir. 625 mm, with four round faces, diameter cir. 500 mm

sturdy metal cube, enamelled in white (RAL 9016) as standard. Optionally, at a surcharge, case and/or clock rims enamelled in custom colours. A large hinged inspection flap on the top provides easy access for maintenance. Protection grade IP 40 (EN 60 529).

Mounting
This clock cube will usually be suspended from the ceiling by metal ropes or chains. Due to varying requirements, ropes or chains are to be procured locally.
Four eyebolts are provided on the top of the case.

Front glasses
Domed shock-resistant Plexiglas® XT (PMMA). As an option, low reflectivity front glasses are available.

Faces
High distinction white metal with large black Arabic numerals or large black DIN bar markings for easy, doubt-free reading even over longer distances. Visible face diameter cir. 400 mm and cir. 500 mm respectively.
Faces printed according to DIN 41 091

Hands
Black bar-type hour and minute hands.
Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Large space
analog
four faces

Type series
395

Clock cubes come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Clock type	Face diameter	Arabic numerals Item No.	€ each	Bar markings Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	400 mm	52.**395**.415	**2,725.–**	52.**395**.425	**2,725.–**
Slave clock, minute pulse 12...60 V	400 mm	71.**395**.415	**2,390.–**	71.**395**.425	**2,390.–**
Slave clock, minute/second pulse 12/24 V	400 mm	72.**395**.415	**3,290.–**	72.**395**.425	**3,290.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	400 mm	74.**395**.415	**4,030.–**	74.**395**.425	**4,030.–**
Telegram slave clock, *DCFport24*, 24 V	400 mm	81.**395**.415	**2,530.–**	81.**395**.425	**2,530.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	400 mm	85.**395**.415	**2,760.–**	85.**395**.425	**2,760.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	400 mm	91.**395**.415	**2,790.–**	91.**395**.425	**2,790.–**

Clock type	Face diameter	Arabic numerals Item No.	€ each	Bar markings Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	500 mm	52.**395**.515	**3,325.–**	52.**395**.525	**3,325.–**
Slave clock, minute pulse 12...60 V	500 mm	71.**395**.515	**2,990.–**	71.**395**.525	**2,990.–**
Slave clock, minute/second pulse 12/24 V	500 mm	72.**395**.515	**3,890.–**	72.**395**.525	**3,890.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	500 mm	74.**395**.515	**4,630.–**	74.**395**.525	**4,630.–**
Telegram slave clock, *DCFport24*, 24 V	500 mm	81.**395**.515	**3,325.–**	81.**395**.525	**3,325.–**
Telegram slave clock, *DCFport24*, mains operated 230 V	500 mm	83.**395**.515	**3,225.–**	83.**395**.525	**3,225.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	500 mm	85.**395**.515	**3,415.–**	85.**395**.525	**3,415.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	500 mm	91.**395**.515	**3,465.–**	91.**395**.525	**3,465.–**

Options	Arab. num. Suffix	Surcharge € each	Bar mark. Suffix	Surcharge € each
Cube custom enamelled	**-13**	**on request**	**-13**	**on request**
Clock rims custom enamelled	**-14**	**on request**	**-14**	**on request**
Clock rims enamelled in metallic dark gun metal DB 703	**-16**	**none**	**-16**	**none**
Low reflectivity front glasses	**-51**	**on request**	**-51**	**on request**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

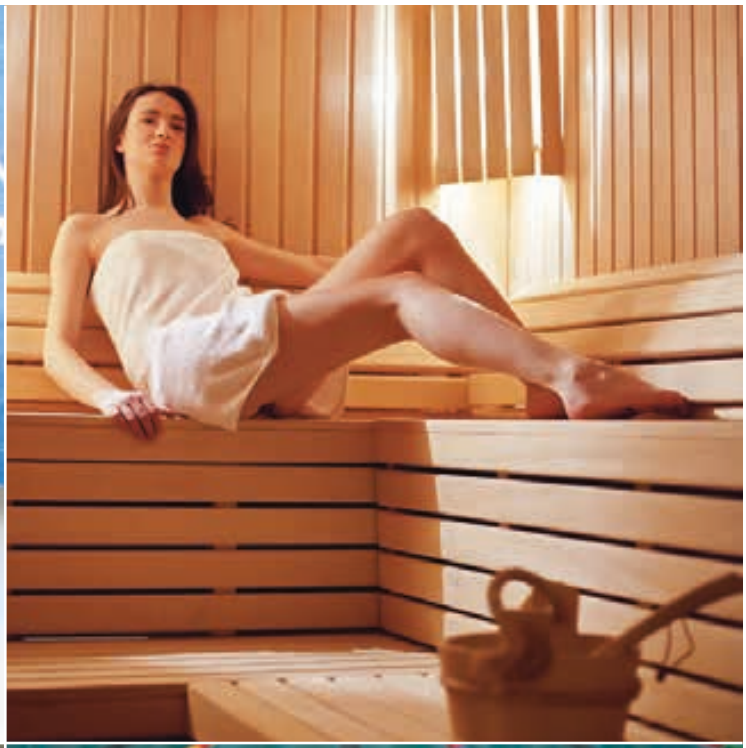
NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

Backlighted clock cubes
for indoor and outdoor use see pages 164 and 165.

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Special clocks
analog · digital
single and
double face



Special clocks

Whether you look for dust-, water- or vapour-proof clocks (acc. to IP grade 64), clocks for high temperatures in sauna cabins, pace clocks indicating split times or clocks for surgical operating rooms in hospitals or other "clean room" applications – on the following pages you will find clocks for all specific requirements ...

Wall Clocks

waterproof, steam proof, dust proof

These clocks are packaged in waterproof, steam proof and dust proof cases and thus perfectly suitable for "critical" areas with blown dust and water thrown in sheets or other demanding environments.
They are not suitable for sauna cabins. Sauna clocks may be found on page 91 only.

Case

■ cir. 300 mm diameter
white plastic case, dust- and water-proof according to IP 64 (EN 60 529).

Front glass

Flat mineral glass, black sealing ring. Also available with shock-resistant Plexiglas® XT (option).

Face

White face with large black Arabic numerals for easy, doubt-free reading even over longer distances.

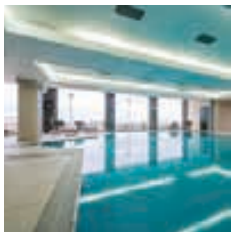
Hands

Black bar-type hour and minute hands, red second hand.

41.**420**.311 shown

Clock type	Item No.	€ each
Quartz clock, battery operated 1.5 V	41.**420**.311	**79.–**
DCF77 radio controlled clock, battery operated 1.5 V	51.**420**.311	**179.–**

Option	Suffix	Surcharge € each
Shock-resistant Plexiglas® XT (instead of mineral glass)	**-53**	**42.–**



Indoor
analog
single face

Type series
420

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Wall Clock

soundless, for relaxation rooms

Indoor
analog
single face

Type series
423

Wall clock in a wooden case with soundless Quartz clockwork and creeping second hand. Excellently suited for relaxation rooms within spa facilities (**not suitable for sauna cabins.** Sauna clocks may be found on page 91 only).

Case
- cir. 220 mm diameter

Ayous wood.
Protection grade IP 40 (EN 60529).

Front glass
Domed mineral glass.

Face
Metal, enamelled white with large black Arabic numerals.

Hands
Black bar-type hour and minute hands, red second hand.

44.**423**.211 shown

Clock type	Item No.	€ each
Quartz clock, soundless, battery operated 1.5 V	44.**423**.211	**148.–**

- creeping second hand
- soundless clockwork

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Sauna Slave Clocks
heat resistant

Special slave clockworks and specially treated wooden cases facilitate professional use of these clocks in private or public saunas. Suited for the use in sauna cabins (up to cir. 95 °C).

Case
- cir. 220 mm diameter
- cir. 230 x 230 mm

Special Ayous wood will not crack even under most severe fluctuations of temperature and humidity. Protection grade IP 40 (EN 60 529).

Front glass
Heat resistant mineral glass.

Face
Metal, enamelled white with large black Arabic numerals.

Hands
Black bar-type hour and minute hands.

71.**425**.211 shown

Clock type	Dimensions	Item No.	€ each
Slave clock, minute pulse 24 V	220 mm diameter	71.**425**.211	**239.–**
Slave clock, minute pulse 24 V	230 x 230 mm	71.**426**.211	**229.–**

Option	Suffix	Surcharge € each
Custom logo on clock face (minimum order of 50)	**-47**	**on request**

Indoor
analog
single face

Type series
425

Type series
426

Slave clocks
Slave clocks require a PEWETA master clock (see from page 172 on, or page 178).

71.**426**.211

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Training Clocks/Pace Clocks for indoors
water protected, with seconds cross

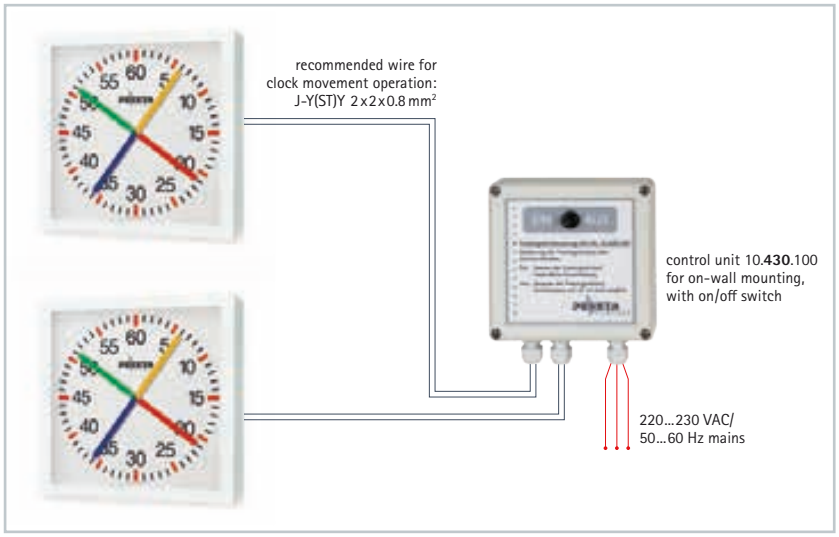
Indoor
analog
single face

Type series
430

This kind of training/pace clock indicates split times during swim training/warm-up training. Times are taken by each swimmer individually. The 4-coloured seconds cross indicates the time elapsed, one complete turn corresponds to exactly 60 seconds.

For parallel operation of 2 training clocks, the slave clock type connected to the central control unit 10.**430**.100 is recommended. Thus an identical display (synchronous time) is always guaranteed on both training clocks connected.

Diagram shows
2 training clocks 71.**431**.611
with control unit 10.**430**.100



Backlighted training clocks
for indoors and outdoors see pages 162 and 163.

Case
■ cir. 600 x 600 mm
very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below. A stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, is available as an option. Clock movement protected according to IP 54 (EN 60 529).

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Wrench-off-proof mounting fixture and two-ply laminated mineral safety glass, thus suitable for ball sports facilities when durably mounted on-wall.

Clock types
- Quartz movement, battery operated (2 x 1.5 V "Alkaline" LR 20, included). **Portable, therefore suitable for mobile use.** ON/OFF switch on reverse side. With carrying handle. Setup on the edge of the pool. 2 pivoted feet ensure a firm position of clock on the ground. Or wall mounting.
- Quartz movement, mains operated 230 V AC. **Recommended for continuous operation and for durable, fixed on-wall position.** Wall mounting and fixed power supply only, incl. wrench-off-proof 3-point mounting fixture.
- Slave movement, pulse operated 24 V. To be operated by fixed connection to control unit 10.**430**.100 only. **Recommended for synchronized, parallel operation of 2 training clocks/pace clocks 71.430.611 in securely fixed positions.** Wall mounting only, incl. 3-point wrench-off-proof mounting fixture. Control unit 10.**430**.100 is required for operation.

42.**430**.611 **-22**

Face
High distinction white metal with red/black second bars and black numerals for easy, doubt-free reading. Reading distance cir. 30 m.

Hands
4-coloured seconds cross, intervals in second cycles.

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard

Function
The (swim) training/pace clock can be used by any number of swimmers simultaneously.
The crossed second hands show the time elapsed in seconds.
The swimmer will wait for a maximum of 14 seconds until the next colour of the four second hands ("his" colour) reaches the 12-o'clock-position and will then memorise the colour of "his" hand.
Upon reaching the edge of the pool (after 1 or 2 laps) the time elapsed can be read according to the position of "his" second hand.

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Technical data	
Operating power (quartz clock type, battery operated)	2 x 1.5 V Mono/LR 20
Operating power (quartz clock type, mains operated)	220 ... 230 V AC
Operating power (slave clock type, pulse operated)	24 V second pulses
Duration of operation in permanent use (battery operated)	cir. 1,000 hours
Intervals	second cycles
Dial sections	0 ... 60
Reading distance	cir. 30 m

Clock type	Item No.	€ each
Quartz clock, battery operated 2 x 1.5 V	41.**430**.611	**960.–**
Quartz clock, mains operated 230 V AC	42.**430**.611	**950.–**
Slave clock, minute pulse 24 V (second cycles)	71.**430**.611	**795.–**

Accessory	Item No.	€ each
Control unit for 2 training clocks 71.**430**.611, operating power 220 ... 230 V AC/50 ... 60 Hz, ON/OFF switch	10.**430**.100	**349.–**

Options	Opt.-Nr.	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**59.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**59.–**
Case custom enamelled	**-10**	**on request**
Case stainless steel V4A, blasted and varnished	**-22**	**on request**
Custom logo on clock face	**-47**	**on request**
Resistance to thrown balls acc. to DIN 18032, part 3 (types 42.**430**.611 and 71.**430**.611 only)	**-59**	**179.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**
stainless steel V4A + clear varnish	**-22**

Clock cases made of stainless steel V4A, matted and varnished (option), are resistant to saltwater and other media containing chlorine. They are therefore excellently suited for permanent use in public swimming pools.

Indoor
analog
single face

Type series
430

Backlighted training clocks
for indoors and outdoors see pages 162 and 163.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Training Clocks/Pace Clocks for indoors
water protected, with minute and second hands

Indoor
analog
single face

Type series
431

This kind of training/pace clock indicates split times during swim training/warm-up training. Times are taken by each swimmer individually. The clock indicates the elapsed time in minutes and seconds.

For parallel operation of 2 training clocks, the slave clock type connected to the central control unit 10.**430**.100 is recommended. Thus an identical display (synchronous time) is always guaranteed on both training clocks connected.

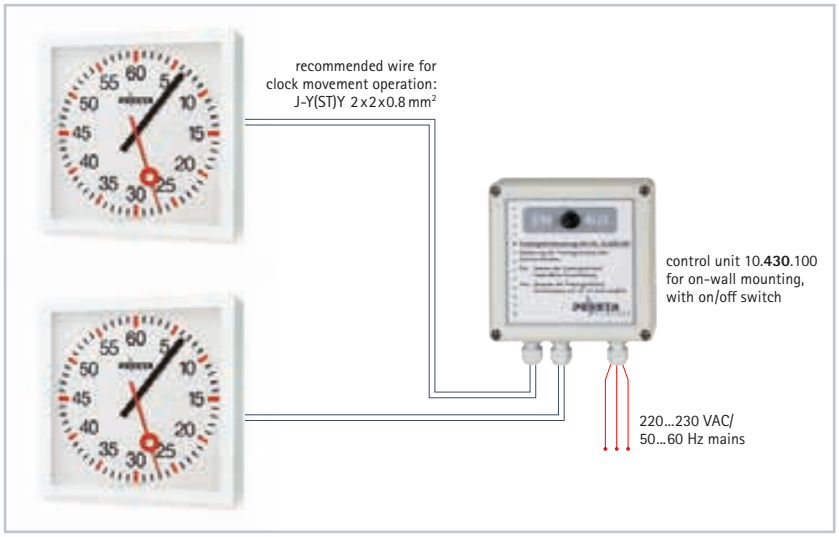


Diagram shows
2 training clocks 71.**431**.611
with control unit 10.**430**.100

Case
■ cir. 600 x 600 mm
very sturdy metal case, enamelled white (RAL 9016). Optionally, at a surcharge, enamelled in metallic silver grey (RAL 9006), in dark gun metal (DB 703) or custom enamelled, as listed below. A stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), blasted and additionally coated with a protective varnish, is available as an option. Clock movement protected according to IP 54 (EN 60 529).

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Wrench-off-proof mounting fixture and two-ply laminated mineral safety glass, thus suitable for ball sports facilities when durably mounted on-wall.

Clock types
- Quartz movement, battery operated (2 x 1.5 V "Alkaline" LR 20, included). **Portable, therefore suitable for mobile use.** ON/OFF switch on reverse side. With carrying handle. Setup on the edge of the pool. 2 pivoted feet ensure a firm position of clock on the ground. Or wall mounting.
- Quartz movement, mains operated 230 V AC. **Recommended for continuous operation and for durable, fixed on-wall position.** Wall mounting and fixed power supply only, incl. wrench-off-proof 3-point mounting fixture.
- Slave movement, pulse operated 24 V. To be operated by fixed connection to control unit 10.**430**.100 only. **Recommended for synchronized, parallel operation of 2 training clocks/pace clocks 71.430.611 in securely fixed positions.** Wall mounting only, incl. 3-point wrench-off-proof mounting fixture. Control unit 10.**430**.100 is required for operation.

42.**431**.611 **-22**

Face
High distinction white metal with red/black second bars and black numerals for easy, doubt-free reading. Reading distance cir. 30 m.

Hands
Black minute hand. Red second hand with "eye", intervals in second cycles.

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Function
The (swim) training/pace clock can be used by any number of swimmers simultaneously.
The elapsed time is displayed in minutes and seconds.
The swimmer will wait for a maximum of 59 seconds until the second hand reaches the 12-o'clock-position and will then memorise the position of the minute hand.
Upon finishing a training round the time elapsed can be easily calculated (time indicated minus the minutes memorised.

Stainless steel V4A + varnish (option)
V4A quality stainless steel with an additional coat of protective varnish is outstandingly resistant to acids and other chlorous media and is therefore particularly suited for public swimming pools as well as for the chemical industry.

Technical data	
Operating power (quartz clock type, battery operated)	2 x 1.5 V Mono/LR 20
Operating power (quartz clock type, mains operated)	220 ... 230 V AC
Operating power (slave clock type, pulse operated)	24 V minute/sec. pulses
Duration of operation in permanent use (battery operated)	cir. 1,000 hours
Intervals	second cycles
Dial sections	0 ... 60
Reading distance	cir. 30 m

Clock type	Item No.	€ each
Quartz clock, battery operated 2 x 1.5 V	41.**431**.611	**1,100.–**
Quartz clock, mains operated 230 V AC	42.**431**.611	**1,090.–**
Slave clock, minute pulse 24 V (second cycles)	71.**431**.611	**935.–**

Accessory	Item No.	€ each
Control unit for 2 training clocks 71.**431**.611, operating power 220 ... 230 V AC/50 ... 60 Hz, ON/OFF switch	10.**430**.100	**349.–**

Options	Opt.-Nr.	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**59.–**
Case enamelled in metallic dark gun metal DB 703	**-06**	**59.–**
Case custom enamelled	**-10**	**on request**
Case stainless steel V4A, blasted and varnished	**-22**	**on request**
Custom logo on clock face	**-47**	**on request**
Resistance to thrown balls acc. to DIN 18032, part 3 (types 42.**430**.611 and 71.**430**.611 only)	**-59**	**179.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
dark gun metal DB 703	**-06**
? custom enamelled	**-10**
stainless steel V4A + clear varnish	**-22**

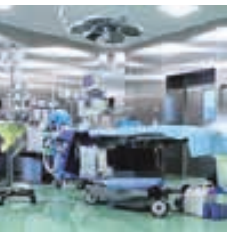
Clock cases made of stainless steel V4A, matted and varnished (option), are resistant to saltwater and other media containing chlorine. They are therefore excellently suited for permanent use in public swimming pools.

Indoor
analog
single face

Type series
431

Analog Clocks for In-Wall Mounting

ideal for surgical operating rooms and other clean rooms

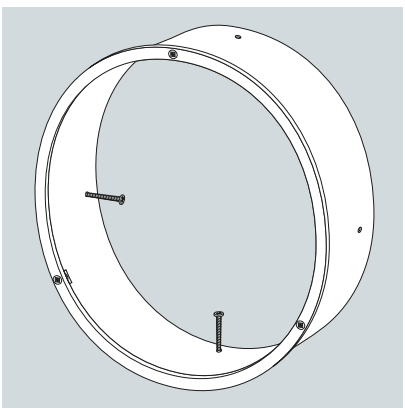


Indoor
analog
flush-mounted

Type series
460

73.**460**.310
for mounting in conventional brick-and-plaster walls shown

These round analog clocks with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.



Metal mounting frame 01.**460**.300
for in-wall mounting in conventional brick walls
(flush with tiles or plaster)

Clock 73.**460**.310 for in-wall mounting
with spring-clip attachment device 01.**460**.301
for stud-and-panel wall mounting

Case
- cir. 301 mm diameter
- cir. 401 mm diameter

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock.

Front glass
Flat mineral glass, 3 mm. Optionally treated for low reflectivity.

Face
High distinction white metal with black Arabic numerals. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

Indoor
analog
flush-mounted

Type series
460

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions		301 mm diameter	401 mm diameter
With mounting frame (conventional brick walls)	mounting frame diameter	cir. 301 mm	cir. 401 mm
	wall breakout diameter	cir. 301 mm	cir. 401 mm
	minimum depth	cir. 63 mm	cir. 63 mm
With spring clips (stud-and-panel walls)	clock case diameter	cir. 301 mm	cir. 401 mm
	wall breakout diameter	cir. 282 mm	cir. 382 mm
	minimum depth	cir. 60 mm	cir. 60 mm

Technical data		301 mm diameter	401 mm diameter
Face	visible face diameter	cir. 250 mm	cir. 350 mm
	print diameter	cir. 240 mm	cir. 340 mm

Clock type	301 mm diameter Item No.	€ each	401 mm diameter Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC [1]	52.460.310	965.–	52.460.410	1,098.–
Slave clock, minute pulse 12...60 V	71.460.310	735.–	71.460.410	869.–
Slave clock, minute/second pulse 12/24 V	72.460.310	960.–	72.460.410	1,094.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.460.310	1,100.–	73.460.410	1,234.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.460.310	1,145.–	74.460.410	1,279.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.460.310	1,120.–	75.460.410	1,254.–
Telegram slave clock, *DCFport24*, 12/24 V	81.460.310	745.–	81.460.410	880.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.460.310	910.–	85.460.410	1,044.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.460.310	895.–	91.460.410	1,029.–

Mounting kits (please order one frame or kit per clock)	301 mm diameter Item No.	€ each	401 mm diameter Item No.	€ each
Metal mounting frame for in-wall mounting in conventional brick walls (diameter x depth: 301 x 60 mm, 401 x 60 mm respectively)	01.460.300	none	01.460.400	none
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.460.301	none	01.460.401	none

Option	301 mm Suffix	Surcharge € each	401 mm Suffix	Surcharge € each
Front glass treated for low reflectivity	-49	49.–	-49	49.–

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Analog Clocks for In-Wall Mounting

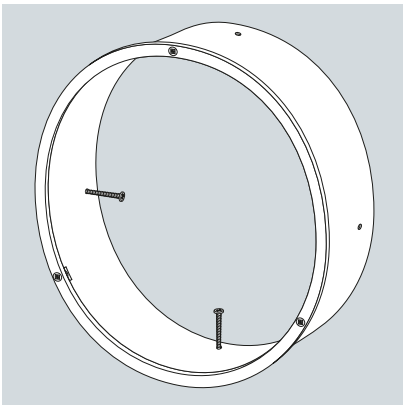
ideal for surgical operating rooms and other clean rooms

Indoor
analog
flush-mounted

Type series
460

73.**460**.320
for mounting in conventional brick-and-plaster walls shown

These round analog clocks with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.



Metal mounting frame 01.**460**.300
for in-wall mounting in conventional brick walls
(flush with tiles or plaster)

Clock 73.**460**.320 for in-wall mounting
with spring-clip attachment device 01.**460**.301
for stud-and-panel wall mounting

Case
- cir. 301 mm diameter
- cir. 401 mm diameter

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock.

Front glass
Flat mineral glass, 3 mm. Optionally treated for low reflectivity.

Face
High distinction white metal with black DIN bar markings. Face printed according to DIN 41 091.

Hands
Pointed black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

Indoor
analog
flush-mounted

Type series
460

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions		301 mm diameter	401 mm diameter
With mounting frame (conventional brick walls)	mounting frame diameter	cir. 301 mm	cir. 401 mm
	wall breakout diameter	cir. 301 mm	cir. 401 mm
	minimum depth	cir. 63 mm	cir. 63 mm
With spring clips (stud-and-panel walls)	clock case diameter	cir. 301 mm	cir. 401 mm
	wall breakout diameter	cir. 282 mm	cir. 382 mm
	minimum depth	cir. 60 mm	cir. 60 mm

Technical data		301 mm diameter	401 mm diameter
Face	visible face diameter	cir. 250 mm	cir. 350 mm
	print diameter	cir. 240 mm	cir. 340 mm

Clock type	301 mm diameter Item No.	€ each	401 mm diameter Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC [1]	52.**460**.320	**965.–**	52.**460**.420	**1,098.–**
Slave clock, minute pulse 12...60 V	71.**460**.320	**735.–**	71.**460**.420	**869.–**
Slave clock, minute/second pulse 12/24 V	72.**460**.320	**960.–**	72.**460**.420	**1,094.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**460**.320	**1,100.–**	73.**460**.420	**1,234.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**460**.320	**1,145.–**	74.**460**.420	**1,279.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**460**.320	**1,120.–**	75.**460**.420	**1,254.–**
Telegram slave clock, *DCFport24*, 12/24 V	81.**460**.320	**745.–**	81.**460**.420	**880.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**460**.320	**910.–**	85.**460**.420	**1,044.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.**460**.320	**895.–**	91.**460**.420	**1,029.–**

Mounting kits (please order one frame or kit per clock)	301 mm diameter Item No.	€ each	401 mm diameter Item No.	€ each
Metal mounting frame for in-wall mounting in conventional brick walls (diameter x depth: 301 x 60 mm, 401 x 60 mm respectively)	01.**460**.300	**none**	01.**460**.400	**none**
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.**460**.301	**none**	01.**460**.401	**none**

Option	301 mm Suffix	Surcharge € each	401 mm Suffix	Surcharge € each
Front glass treated for low reflectivity	**-49**	**49.–**	**-49**	**49.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Analog Clocks for In-Wall Mounting

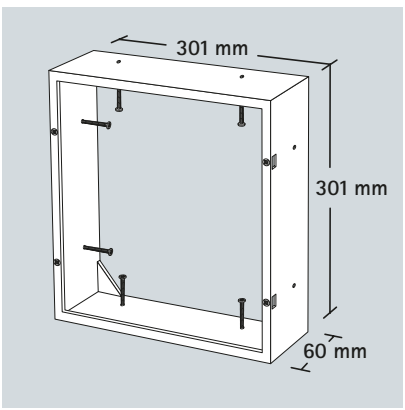
ideal for surgical operating rooms and other clean rooms

Indoor
analog
flush-mounted

Type series
470

73.**470**.310
for mounting in conventional brick-and-plaster walls shown

These square analog clocks with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.



Metal mounting frame 01.**470**.300
for in-wall mounting in conventional brick walls
(flush with tiles or plaster)

Clock 73.**470**.310 for in-wall mounting
with spring-clip attachment device 01.**470**.301
for stud-and-panel wall mounting

Case
- cir. 301 x 301 mm

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall
- on-wall mounting (optional)

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock. Optionally, at a surcharge, the clock may also be configured for on-wall mounting.

Front glass
Flat mineral glass, 3 mm. Optionally treated for low reflectivity.

Face
High distinction white metal with black Arabic numerals. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

Indoor
analog
flush-mounted

Type series
470

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media. The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions	with mounting frame	for stud-and-panel walls
Clock case (width x height)	cir. 301 x 301 mm	cir. 301 x 301 mm
Wall breakout (width x height)	cir. 301 x 301 mm	cir. 282 x 277 mm
Depth	cir. 63 mm	cir. 60 mm

Technical data		
Face	print diameter	cir. 235 mm
	face dimensions	cir. 270 x 270 mm
Power consumption	slave clock, minute pulse 24 V	cir. 6 mA
	slave clock, minute/second pulse 24 V	cir. 12 mA

Clock type	Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC [1]	52.**470**.310	**965.–**
Slave clock, minute pulse 12...60 V	71.**470**.310	**735.–**
Slave clock, minute/second pulse 12/24 V	72.**470**.310	**960.–**
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.**470**.310	**1,100.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.**470**.310	**1,145.–**
Slave clock, second pulse 12/24 V, with creeping minute hand	75.**470**.310	**1,120.–**
Telegram slave clock, *DCFport24*, 12/24 V	81.**470**.310	**745.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.**470**.310	**910.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.**470**.310	**895.–**

Mounting kits (please order one frame or kit per clock)	Item No.	€ each
Metal mounting frame for in-wall mounting in conventional brick walls	01.**470**.300	**none**
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.**470**.301	**none**
Case for on-wall mounting (stainless steel V4A)	01.**470**.302	**269.–**

Option	Suffix	Surcharge € each
Front glass treated for low reflectivity	**-49**	**49.–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Analog Clocks for In-Wall Mounting

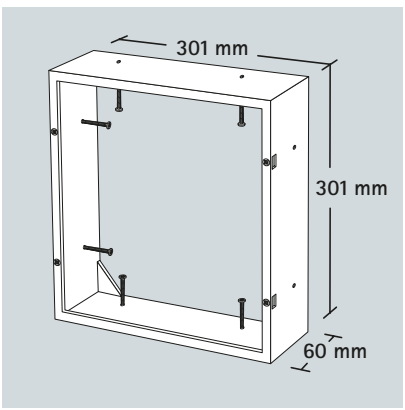
ideal for surgical operating rooms and other clean rooms

Indoor
analog
flush-mounted

Type series
470

73.**470**.320
for mounting in conventional brick-and-plaster walls shown

These square analog clocks with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.



Metal mounting frame 01.**470**.300
for in-wall mounting in conventional brick walls (flush with tiles or plaster)

Clock 73.**470**.330 (with fine-line markings) for in-wall mounting with spring-clip attachment device 01.**470**.301 for stud-and-panel wall mounting

Case
- cir. 301 x 301 mm

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall
- on-wall mounting (optional)

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock. Optionally, at a surcharge, the clock may also be configured for on-wall mounting.

Front glass
Flat mineral glass, 3 mm. Optionally treated for low reflectivity.

Face
High distinction white metal with black DIN bar or black fine-line markings. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Indoor
analog
flush-mounted

Type series
470

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

Mounting dimensions	with mounting frame	for stud-and-panel walls
Clock case (width x height)	cir. 301 x 301 mm	cir. 301 x 301 mm
Wall breakout (width x height)	cir. 301 x 301 mm	cir. 282 x 277 mm
Depth	cir. 63 mm	cir. 60 mm

Technical data		
Face	print diameter	cir. 235 mm
	face dimensions	cir. 270 x 270 mm
Power consumption	slave clock, minute pulse 24 V	cir. 6 mA
	slave clock, minute/second pulse 24 V	cir. 12 mA

Clock type	DIN bars Item No.	€ each	fine-line Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC [1]	52.470.320	965.–	52.470.330	965.–
Slave clock, minute pulse 12...60 V	71.470.320	735.–	71.470.330	735.–
Slave clock, minute/second pulse 12/24 V	72.470.320	960.–	72.470.330	960.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.470.320	1,100.–	73.470.330	1,100.–
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	74.470.320	1,145.–	74.470.330	1,145.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.470.320	1,120.–	75.470.330	1,120.–
Telegram slave clock, *DCFport24*, 12/24 V	81.470.320	745.–	81.470.330	745.–
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	85.470.320	910.–	85.470.330	910.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.470.320	895.–	91.470.330	895.–

Mounting kits (please order one frame or kit per clock)	Item No.	€ each
Metal mounting frame for in-wall mounting in conventional brick walls	01.470.300	none
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.470.301	none
Case for on-wall mounting (stainless steel V4A)	01.470.302	269.–

Option	Suffix	Surcharge € each
Front glass treated for low reflectivity	-49	49.–

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Analog Clocks for In-Wall Mounting

with digital stopwatch display, ideal for surgical operating rooms

Indoor
analog/digital
flush-mounted

Type series
480

73.**480**.310 shown

These analog clocks with LED digital stopwatch display with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.

02.**498**.101

02.**498**.102

For operating the stopwatch mode of the LED digital display we provide different remote control units in stainless steel cases. For a detailed product description please see page 110.

Case
- cir. 301 x 387 mm

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall
- on-wall mounting (optional)

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock. Optionally, at a surcharge, the clock may also be configured for on-wall mounting.

Front glass
Flat mineral glass, 3 mm. Glass on digital display is treated for low reflectivity. On analog face, low reflective glass is available as an option.

Face
High distinction white metal with black Arabic numerals. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

LED digital display
6-digit 7-segment LED bars, digit colour red (option: amber or green). Digit height 25 mm. Automatic brightness control. Power supply is 230 VAC mains as standard, 12 V DC (option). Power loss reserve: Time telegram/pulse storage to cover cir. 100 hours.

Stopwatch mode
The 6-digit display will show hours, minutes and seconds, counting up from start. The stopwatch system is controlled by a remote control unit (as an extra), for technical data see page 110.

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions	with mounting frame	for stud-and-panel walls
clock case (width x height)	cir. 301 x 387 mm	cir. 301 x 387 mm
wall breakout (width x height)	cir. 301 x 387 mm	cir. 282 x 362 mm
depth	cir. 81 mm	cir. 78 mm

Technical data		
Analog face	print diameter	cir. 235 mm
	face dimensions	cir. 270 x 270 mm
Digit height	digital display	25 mm
Electrical values	operating voltage for digital display	230 VAC
	optional operating voltage for digital display	12 VDC
	power consumption LED display	cir. 9 VA

Clock type	Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	52.480.310	1,695.–
Slave clock, minute pulse 12...60 V	71.480.310	1,490.–
Slave clock, minute/second pulse 12/24 V	72.480.310	1,715.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.480.310	1,855.–
Slave clock, minute pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.480.310	1,900.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.480.310	1,875.–
Telegram slave clock, *DCFport24*, 12/24 V	81.480.310	1,530.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.480.310	1,694.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.480.310	1,679.–

Mounting kits (please order one frame or kit per clock)	Item No.	€ each
Metal mounting frame (width x height x depth: cir. 301 x 387 x 78 mm) for in-wall mounting in conventional brick walls	01.480.300	none
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.480.301	none
Case for on-wall mounting (stainless steel V4A)	01.480.302	295.–

Accessories	Item No.	€ each
Remote control with mounting frame for in-wall mounting, stainless steel V4A	02.498.100	795.–
Remote control for stud-and-panel wall mounting by means of spring clip attachment device, stainless steel V4A (no mounting frame required)	02.498.101	795.–
Hand-held remote control, stainless steel V4A	02.498.102	795.–

Options	Suffix	Surcharge € each
Front glass of analog clock treated for low reflectivity	-49	49.–
Mains adapter 12 V DC for LED digital display	-70	none
Amber (instead of red) digital display	-78	on request
Green (instead of red) digital display	-79	on request
Date display during inactivity of stopwatch mode	-81	on request

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog/digital
flush-mounted

Type series
480

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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Analog Clocks for In-Wall Mounting

with digital stopwatch display, ideal for surgical operating rooms

Indoor
analog/digital
flush-mounted

Type series
480

73.**480**.320 shown

These analog clocks with LED digital stopwatch display with stainless steel V4A cases were designed with the surgical operating room in mind. Mounted in-wall, flush with the surface, these reliable and accurate clocks meet all hygienic standards. Also suitable for all other demanding environments such as the pharmaceutical, beverage and food industries.

02.**498**.101

02.**498**.102

For operating the stopwatch mode of the LED digital display we provide different remote control units in stainless steel cases. For a detailed product description please see page 110.

Case
- cir. 301 x 387 mm

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall
- on-wall mounting (optional)

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock. Optionally, at a surcharge, the clock may also be configured for on-wall mounting.

Front glass
Flat mineral glass, 3 mm. Glass on digital display is treated for low reflectivity. On analog face, low reflective glass is available as an option.

Face
High distinction white metal with black DIN bar markings. Face printed according to DIN 41 091.

Hands
Black bar-type hour and minute hands, red second hand.

No second hands on minute pulse 12... 60 V controlled slave clocks.

LED digital display
6-digit 7-segment LED bars, digit colour red (option: amber or green). Digit height 25 mm. Automatic brightness control. Power supply is 230 VAC mains as standard, 12 V DC (option). Power loss reserve: Time telegram/pulse storage to cover cir. 100 hours.

Stopwatch mode
The 6-digit display will show hours, minutes and seconds, counting up from start. The stopwatch system is controlled by a remote control unit (as an extra), for technical data see page 110.

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions	with mounting frame	for stud-and-panel walls
clock case (width x height)	cir. 301 x 387 mm	cir. 301 x 387 mm
wall breakout (width x height)	cir. 301 x 387 mm	cir. 282 x 362 mm
depth	cir. 81 mm	cir. 78 mm

Technical data		
Analog face	print diameter	cir. 235 mm
	face dimensions	cir. 270 x 270 mm
Digit height	digital display	25 mm
Electrical values	operating voltage for digital display	230 VAC
	optional operating voltage for digital display	12 VDC
	power consumption LED display	cir. 9 VA

Clock type	DIN bars Item No.	€ each	fine-line Item No.	€ each
DCF77 radio controlled clock, mains op. 230 VAC [1]	52.480.320	1,695.–	52.480.330	1,695.–
Slave clock, minute pulse 12...60 V	71.480.320	1,490.–	71.480.330	1,490.–
Slave clock, minute/second pulse 12/24 V	72.480.320	1,715.–	72.480.330	1,715.–
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.480.320	1,855.–	73.480.330	1,855.–
Slave clock, minute pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.480.320	1,900.–	74.480.330	1,900.–
Slave clock, second pulse 12/24 V, with creeping minute hand	75.480.320	1,875.–	75.480.330	1,875.–
Telegram slave clock, *DCFport24*, 12/24 V	81.480.320	1,530.–	81.480.330	1,530.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.480.320	1,694.–	85.480.330	1,694.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.480.320	1,679.–	91.480.330	1,679.–

Mounting kits (please order one frame or kit per clock)	Item No.	€ each
Metal mounting frame (width x height x depth: cir. 301 x 387 x 78 mm) for in-wall mounting in conventional brick walls	01.480.300	none
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.480.301	none
Case for on-wall mounting (stainless steel V4A)	01.480.302	295.–

Accessories	Item No.	€ each
Remote control w. mounting frame for in-wall mounting, stainless steel V4A	02.498.100	795.–
Remote control for stud-and-panel wall mounting by means of spring clip attachment device, stainless steel V4A (no mounting frame required)	02.498.101	795.–
Hand-held remote control, stainless steel V4A	02.498.102	795.–

Options	Suffix	Surcharge € each
Front glass of analog clock treated for low reflectivity	-49	49.–
Mains adapter 12 V DC for LED digital display	-70	none
Amber (instead of red) digital display	-78	on request
Green (instead of red) digital display	-79	on request
Date display during inactivity of stopwatch mode	-81	on request

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor
analog/digital
flush-mounted

Type series
480

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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LED Digital Clocks for In-Wall Mounting

with stopwatch mode (optional), ideal for surgical operating rooms

Indoor
digital
flush-mounted

Type series
490

83.**490**.550 shown

These LED digital clocks with stainless steel V4A cases were designed with the surgical operating room in mind. They are mounted in-wall, flush with the surface, to meet all hygienic standards.
Configured in this type of case or in any other case adapted to customer's wishes, e. g.

- for on-wall mounting,
- for desk-top use or
- as a double faced clock,

these clocks can be used in any demanding environment, such as the pharmaceutical, beverage and food industries, requiring accurate and dependable time information.

2 x 83.**490**.550 **-89** and 01.**490**.503 shown

Double faced clock with ceiling bracket, stainless steel V4A

02.**498**.101

02.**498**.102

For operating the stopwatch mode (option) we provide different remote control units in stainless steel cases. For a detailed product description please see page 110.

Case
- cir. 455 x 150 mm,

very high grade stainless steel case (1.4571 X6CrNiMoTi 17-12-2, German trade name V4A), for mounting flush with wall tiles or plaster. Visible surface with a matted finish, resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting
- built-in/plaster
- in stud-and-panel wall
- on-wall mounting (optional)
- double faced clocks may be suspended from the ceiling on brackets (optional).

A metal mounting frame for conventional brick walls or a spring-clip device for stud-and-panel walls is supplied with the clock. Optionally, at a surcharge, the clock may also be configured for on-wall mounting or as a double faced version.

LED digital display
6-digits, 2 each for hours, minutes and seconds. 7-segment LED bars, red as standard, amber or green as options. Digit height 57 mm for hour, minute and second. Second digit height 38 mm as an option. Automatic brightness control. Readability is excellent even at extremely sharp angles.

Front glass
Flat mineral glass, 3 mm, treated for low reflectivity.

Power supply
230 VAC/50 Hz is standard, 12 VDC mains is optional. Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2]. Existing 2-wire or 4-wire slave clock bus lines may be re-used for 12 VDC or PEWETA *DCFport24* versions.

Stopwatch mode (optional)
These clocks can be fitted with a count up/split time stopwatch mode. The 6-digit LED display will show hours, minutes and seconds, counting up from start. The stopwatch system is controlled by a wire-based remote control unit (as an extra), for technical data see page 110.

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

Mounting dimensions	with mounting frame	for stud-and-panel walls
clock case (width x height)	cir. 455 x 150 mm	cir. 455 x 150 mm
wall breakout (width x height)	cir. 455 x 150 mm	cir. 426 x 138 mm
depth	cir. 73 mm	cir. 60 mm

Technical data		
Digit height	hour, minute, second	57 mm
	second (option)	38 mm
Electrical values	operating voltage	230 VAC
	operating voltage (option)	12 VDC
	power consumption	cir. 9 VA
	power losss reserve	cir. 100 hours.

Clock type	Operating voltage	Item No.	€ each
Quartz clock (in connection with *PEWETA data bus RS485 master* or *slave* option only)	230 VAC	42.**490**.550	**1,309.–**
DCF77 radio controlled clock[1]	230 VAC	52.**490**.550	**1,469.–**
Slave clock, minute pulse 24 V	230 VAC	71.**490**.550	**1,399.–**
Telegram slave clock, *DCFport24*, 24 V[2]	*DCFport24*	81.**490**.550	**1,399.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**490**.550	**1,399.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**490**.550	**1,509.–**
NTP system clock (NTP client), synchronisation by LAN[1][3]	PoE	91.**490**.550	**1,459.–**
NTP system clock (NTP client), synchronisation by LAN[1][4]	230 VAC	93.**490**.550	**1,489.–**

Mounting kits (please order one frame or kit per clock)	Item No.	€ each
Metal mounting frame (width x height x depth: cir. 455 x 150 x 70 mm) for in-wall mounting in conventional brick walls	01.**490**.500	**none**
Mounting kit for stud-and-panel walls (spring-clip attachment device/no mounting frame required)	01.**490**.501	**none**
Case for on-wall mounting (stainless steel V4A)	01.**490**.502	**295.–**
Bracket for ceiling mounting of two single clocks (stainless steel V4A)	01.**490**.503	**295.–**

Accessories	Item No.	€ each
Remote control w. mounting frame for in-wall mounting, stainless steel V4A	02.**498**.100	**795.–**
Remote control for stud-and-panel wall mounting by means of spring clip attachment device, stainless steel V4A (no mounting frame required)	02.**498**.101	**795.–**
Hand-held remote control, stainless steel V4A	02.**498**.102	**795.–**

Options	Suffix	Surcharge € each
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Stopwatch mode (remote control unit is an extra)	**-71**	**169.–**
Amber (instead of red) LED digital display (57 mm digit height second only)	**-78**	**69.–**
Green (instead of red) LED digital display (57 mm digit height second only)	**-79**	**125.–**
Date indication alternating with time indication	**-81**	**on request**
PEWETA data bus RS485 master (output)	**-82**	**100.–**
PEWETA data bus RS485 slave (input)	**-83**	**100.–**
Alternating temperature indication (external temperature sensor included)	**-88**	**295.–**
Second digit height 38 mm (instead of 57 mm)	**-89**	**none**
GPS version, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] Limited number of clocks within a system/network.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

Indoor
digital
flush-mounted

Type series
490

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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Remote Control

ideally suited for surgical operating room in-wall clocks (digital or analog/digital)

Remote control
flush-mounted or hand-held

Type series
498

These control units (wire-bound remote controls) were specially developed for use in hospital surgical operating rooms – flush with wall tiles, no hygienic limitations, reliable and accurate!
Also usable in other clean-room environments, such as pharmaceutical, beverage or food industries.

Case

Flush-with-tiles/wall surface stainless steel V4A (1.4571 X6CrNiMoTi 17-12-2) mounting frame for in-wall mounting, visible surfaces with a matted finish (K240), specially resistant to acids, detergents and disinfectants. In mounted condition protected against dust and moisture to IP 54 (EN 60 529).

Mounting

- built-in/plaster
- in stud-and-panel wall
- hand-held

The built-in version is supplied with either a mounting frame for mounting in conventional brick-and-plaster walls or a spring clip attachment device for stud-and-panel walls.
A hand-held version is also available.
For dimensions please see table.

Functions

- switching between clock and stopwatch function
- start/stop (counting upwards)
- split times
- reset

When used with PEWETA LED-OP-in-wall clocks, no separate power supply is required. Connected to clock by 4-core-wire, such as LIYCY-0 4 x 0.25 mm² (standard length of cir. 5 m is supplied with control unit).

02.**498**.101 shown

Mounting dimensions	02.**498**.100	02.**498**.101
wall breakout (width x height)	cir. 150 x 150 mm	cir. 135 x 125 mm
space required for spring clips (width)	not applicable	cir. 250 mm
front panel (width x height)	cir. 150 x 150 mm	cir. 150 x 150 mm
minimum depth without mounting frame	37.5 mm	34.5 mm

Dimensions	02.**498**.102
width x height x depth	cir. 43 x 125 x 25 mm
weight	cir. 250 g

If interested please ask for data and dimension sheet.

Type	**Item No.**	**€ each**
Remote control with mounting frame for in-wall mounting, stainless steel V4A	02.**498**.100	**795.–**
Remote control for stud-and-panel wall mounting by means of spring clip attachment device, stainless steel V4A (no mounting frame required)	02.**498**.101	**795.–**
Hand-held remote control, stainless steel V4A	02.**498**.102	**795.–**

02.**498**.102

Stainless steel V4A
Due to its components stainless steel V4A is not only completely impervious to detergents and disinfectants but also to acids and other aggressive media.
The flush-mounted clocks of this type series are therefore particularly suited for the use surgical operating rooms and other clean rooms.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Indoor
digital
single- and
double-sided

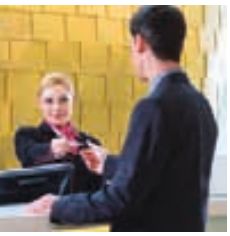
Digital Clocks

indoor · single- and double-sided

"Thirteen fortyfive" – contrary to analog clocks, digital clocks soundlessly indicate the time in a 24-hour mode.
This is particularly recommended for radio stations and TV studios, in world time clock systems and for places of high publicity, e. g. bank areas – locations where exact time should be shown in combination with the date.

LED Digital Clocks

for offices, production areas, and places of high publicity



Indoor
digital
single- and
double-sided

Type series
510

81.**510**.551 shown

LED digital clocks, single- or double-sided with distinct, brightly lit LED bars guarantee optimal reading clearness.

81.**510**.551 **-78** shown

71.**510**.553 **-79** shown

Case

- cir. 320 x 150 x 34 mm (cipher height 57 mm)
- cir. 520 x 250 x 43 mm (cipher height 100 mm)

Extra flat, very sturdy metal case, enamelled black (RAL 9005). Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with an additional, sturdy wall or ceiling mounting bracket (accessory)
- Double-sided version includes sturdy wall or ceiling mounting bracket.

LED digital display

- cipher height 57 mm
- cipher height 100 mm

Single line display showing hours and minutes, 4 digits, bar-type 7-segment LED ciphers, colour red (optionally amber, green or blue at a surcharge). Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2)].

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.
All settings will be taken over by both sides automatically!

Technical data		Cipher height 57 mm	Cipher height 100 mm
Case	colour	black (RAL 9005)	black (RAL 9005)
	dimensions (length x width x depth)	cir. 320 x 150 x 34 mm	cir. 520 x 250 x 43 mm
Display	cipher height hours, minutes	cir. 57 mm	cir. 100 mm
	reading distance	cir. 20 m	cir. 40 m
Power consumption	display	max. 5 VA	max. 6 VA

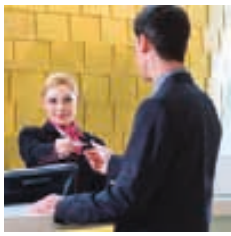
Single-sided version (on-wall mounting)	Cipher height ▶ Operating voltage ▼	57 mm Item No.	€ each	100 mm Item No.	€ each
Quartz clock	230 VAC	42.**510**.551	**660.–**	42.**510**.951	**1,110.–**
DCF77 radio controlled clock [1]	230 VAC	52.**510**.551	**820.–**	52.**510**.951	**1,270.–**
Slave clock, minute pulse 24 V	230 VAC	71.**510**.551	**750.–**	71.**510**.951	**1,200.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**510**.551	**750.–**	81.**510**.951	**1,200.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**510**.551	**750.–**	83.**510**.951	**1,200.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**510**.551	**860.–**	85.**510**.951	**1,310.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**510**.551	**810.–**	91.**510**.951	**1,260.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**510**.551	**840.–**	93.**510**.951	**1,290.–**

Double-sided version (incl. wall and ceiling mounting bracket respectively)	Cipher height ▶ Mounting ▼	57 mm Item No.	€ each	100 mm Item No.	€ each
Quartz clock, mains operated 230 VAC	wall	42.**510**.552	**1,480.–**		**not available**
	ceiling	42.**510**.553	**1,480.–**	42.**510**.953	**2,380.–**
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**510**.552	**1,640.–**		**not available**
	ceiling	52.**510**.553	**1,640.–**	52.**510**.953	**2,540.–**
Slave clock, minute pulse 24 V, mains operated 230 VAC	wall	71.**510**.552	**1,570.–**		**not available**
	ceiling	71.**510**.553	**1,570.–**	71.**510**.953	**2,470.–**
Telegram slave clock, *DCFport24*, operating voltage *DCFport24* [2]	wall	81.**510**.552	**1,570.–**		**not available**
	ceiling	81.**510**.553	**1,570.–**	81.**510**.953	**2,470.–**
Telegram slave clock, *DCFport24*, operating voltage 230 VAC	wall	83.**510**.552	**1,570.–**		**not available**
	ceiling	83.**510**.553	**1,570.–**	83.**510**.953	**2,470.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**510**.552	**1,680.–**		**not available**
	ceiling	85.**510**.553	**1,680.–**	85.**510**.953	**2,580.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3], operating voltage 230 VAC	wall	91.**510**.552	**1,630.–**		**not available**
	ceiling	91.**510**.553	**1,630.–**	91.**510**.953	**2,530.–**
NTP system clock (NTP client), synchronisation by LAN [4], operating voltage 230 VAC	wall	93.**510**.552	**1,660.–**		**not available**
	ceiling	93.**510**.553	**1,660.–**	93.**510**.953	**2,560.–**

Accessories	Item No.	€ each
Mounting bracket for 1 single-sided clock, on wall, bracket length cir. 125 mm (for LED clocks with 57 mm cipher height only)	01.**510**.502	**189.–**
Mounting bracket for 1 single-sided clock, on ceiling, bracket length cir. 130 mm	01.**510**.503	**189.–**
Metal cover for wall or ceiling mounting bracket	01.**510**.537	**125.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Amber LEDs (57 mm cipher height only, surcharge per display/side)	**-78**	**49.–**
Green LEDs (57 mm cipher height only, surcharge per display/side)	**-79**	**89.–**
Blue LEDs (57 mm cipher height only, surcharge per display/side)	**-80**	**89.–**
Alternating date display	**-81**	**on request**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.



Indoor
digital
single- and
double-sided

Type series
510

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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LED Digital Clocks

for offices, production areas, and places of high publicity

Indoor
digital
single- and
double-sided

Type series
511

81.**511**.551 shown

LED digital clocks, single- or double-sided with distinct, brightly lit LED bars guarantee optimal reading clearness.

43.**548**.251 shown

71.**511**.553 **-89** shown

Case

- cir. 440 x 150 x 34 mm (cipher height 57 mm)
- cir. 770 x 250 x 43 mm (cipher height 100 mm)

Extra flat, very sturdy metal case, enamelled black (RAL 9005). Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with an additional, sturdy wall or ceiling mounting bracket (accessory)
- Double-sided version includes sturdy wall or ceiling mounting bracket.

LED digital display

- cipher height 57 mm (option: 38 mm for seconds)
- cipher height 100 mm

Single line display showing hours, minutes and seconds, 6-digits, bar-type 7-segment LED ciphers, colour red (optionally amber, green or blue at a surcharge). Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2)].

Stopwatch mode (option)

These clocks can be fitted with an additional stopwatch mode (count-up/ count-down). This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical details see page 133.

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.
All settings will be taken over by both sides automatically!

Technical data		Cipher height 57 mm	Cipher height 100 mm
Case	colour	black (RAL 9005)	black (RAL 9005)
	dimensions (length x width x depth)	cir. 440 x 150 x 34 mm	cir. 770 x 250 x 43 mm
Display	cipher height hours, minutes, seconds	cir. 57 mm	cir. 100 mm
	reading distance	cir. 20 m	cir. 40 m
Power consumption	display	max. 5 VA	max. 6 VA

Single-sided version (on-wall mounting)	Cipher height ▶ Operating voltage ▼	57 mm Item No.	€ each	100 mm Item No.	€ each
Quartz clock	230 VAC	42.**511**.551	**750.–**	42.**511**.951	**1,360.–**
DCF77 radio controlled clock [1]	230 VAC	52.**511**.551	**910.–**	52.**511**.951	**1,520.–**
Slave clock, minute pulse 24 V	230 VAC	71.**511**.551	**840.–**	71.**511**.951	**1,450.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**511**.551	**840.–**	81.**511**.951	**1,450.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**511**.551	**840.–**	83.**511**.951	**1,450.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**511**.551	**950.–**	85.**511**.951	**1,560.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**511**.551	**900.–**	91.**511**.951	**1,510.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**511**.551	**930.–**	93.**511**.951	**1,540.–**

Double-sided version (incl. wall and ceiling mounting bracket respectively)	Cipher height ▶ Mounting ▼	57 mm Item No.	€ each	100 mm Item No.	€ each
Quartz clock,	wall	42.**511**.552	**1,660.–**		**not available**
mains operated 230 VAC	ceiling	42.**511**.553	**1,660.–**	42.**511**.953	**2,990.–**
DCF77 radio controlled clock,	wall	52.**511**.552	**1,820.–**		**not available**
mains operated 230 VAC [1]	ceiling	52.**511**.553	**1,820.–**	52.**511**.953	**3,150.–**
Slave clock, minute pulse 24 V,	wall	71.**511**.552	**1,750.–**		**not available**
mains operated 230 VAC	ceiling	71.**511**.553	**1,750.–**	71.**511**.953	**3,080.–**
Telegram slave clock, *DCFport24*,	wall	81.**511**.552	**1,750.–**		**not available**
operating voltage *DCFport24* [2]	ceiling	81.**511**.553	**1,750.–**	81.**511**.953	**3,080.–**
Telegram slave clock, *DCFport24*,	wall	83.**511**.552	**1,750.–**		**not available**
operating voltage 230 VAC	ceiling	83.**511**.553	**1,750.–**	83.**511**.953	**3,080.–**
RC telegram slave clock, *AirPort24*,	wall	85.**511**.552	**1,860.–**		**not available**
mains operated 230 VAC, with outage reserve	ceiling	85.**511**.553	**1,860.–**	85.**511**.953	**3,190.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3],	wall	91.**511**.552	**1,810.–**		**not available**
operating voltage 230 VAC	ceiling	91.**511**.553	**1,810.–**	91.**511**.953	**3,140.–**
NTP system clock (NTP client), synchronisation by LAN [4],	wall	93.**511**.552	**1,840.–**		**not available**
operating voltage 230 VAC	ceiling	93.**511**.553	**1,840.–**	93.**511**.953	**3,170.–**

Accessories	Cipher height ▶	57 mm Item No.	€ each	100 mm Item No.	€ each
Mounting bracket for 1 single-sided clock, on wall, bracket length cir. 125 mm		01.**511**.502	**189.–**		**not available**
Mounting bracket(s) [5] for 1 single-sided clock, on ceiling, bracket length cir. 130 mm		01.**511**.503	**189.–**	01.**511**.903	**378.–**
Metal cover(s) for wall or ceiling mounting bracket(s)		01.**510**.537	**125.–**	01.**515**.537	**250.–**
Remote control unit "Basic PRO" for stopwatch function, PEWETA *digital RS485* version [6]		43.**548**.251	**1,250.–**	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [7]		91.**548**.251	**1,290.–**	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
Amber LEDs (57 mm cipher height only, surcharge per display/side)	**-78**	**69.–**
Green LEDs (57 mm cipher height only, surcharge per display/side)	**-79**	**125.–**
Blue LEDs (57 mm cipher height only, surcharge per display/side)	**-80**	**125.–**
Alternating date display	**-81**	**on request**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Seconds display: 38 mm cipher height instead of 57 mm	**-89**	**none**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] For LED digital clocks with 100 mm cipher height, 2 mounting brackets per clock will always be supplied.
[6] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[7] Works with NTP system clock (NTP client) clock types only..

Indoor
digital
single- and
double-sided

Type series
511

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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LED Digital Calendar Clocks

for banks, reception areas, and other places of high publicity

Indoor
digital
single- and
double-sided

Type series
512

91.**512**.551 shown

LED digital clocks, single- or double-sided, with distinct, brightly lit LED bars guarantee optimal reading clearness.

Case

- cir. 670 x 150 x 34 mm

Extra flat, very sturdy metal case, enamelled black (RAL 9005).
Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with additional, sturdy ceiling mounting brackets (accessory)
- Double-sided version includes sturdy ceiling mounting brackets.

LED digital display

Single line display showing 10-character alphanumeric date, character height 30 mm, adjustable to various date formats, and numeric time, 4 digits for hours and minutes, cipher height 57 mm. Reading distance cir. 18..20 m. Bar-type 7-segment LED ciphers and 16-segment LED characters, respectively, colour red. Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.

91.**512**.551 shown

91.**512**.553 shown

Various date formats are adjustable by menu

91.**512**.551 **-75** shown

City name displayed when the clock is part of a World Time Clock system

Technical data		
Case	colour	black (RAL 9005)
	dimensions (length x width x depth)	cir. 670 x 150 x 34 mm
Display	cipher height hour/minute	cir. 57 mm
	cipher height date	cir. 30 mm
	reading distance	cir. 18...20 m
Power consumption	display	max. 5 VA

Single-sided version (on-wall mounting)	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**512**.551	**1,250.–**
DCF77 radio controlled clock [1]	230 VAC	52.**512**.551	**1,410.–**
Slave clock, minute pulse 24 V	230 VAC	71.**512**.551	**1,340.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**512**.551	**1,340.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**512**.551	**1,340.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**512**.551	**1,450.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**512**.551	**1,400.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**512**.551	**1,430.–**

Double-sided version (on-wall mounting)	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**512**.553	**2,800.–**
DCF77 radio controlled clock [1]	230 VAC	52.**512**.553	**2,960.–**
Slave clock, minute pulse 24 V	230 VAC	71.**512**.553	**2,890.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**512**.553	**2,890.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**512**.553	**2,890.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**512**.553	**3,000.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**512**.553	**2,950.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**512**.553	**2,980.–**

Accessories	Item No.	€ each
Mounting brackets for 1 single-sided clock, on ceiling, bracket length cir. 130 mm	01.**512**.503	**378.–**
Metal covers for wall or ceiling mounting brackets	01.**515**.537	**250.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
City pre-sets for World Time Clock Systems	**-75**	**139.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/ network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

Indoor
digital
single- and
double-sided

Type series
512

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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LED Digital Calendar Clocks

for banks, reception areas, and other places of high publicity

Indoor
digital
single- and
double-sided

Type series
514

91.**514**.551 shown

LED digital clocks, single- or double-sided with distinct, brightly lit LED bars guarantee optimal reading clearness.

83.**514**.553 shown

83.**514**.551 **-74** shown

Case

- cir. 440 x 250 x 34 mm

Extra flat, very sturdy metal case, enamelled black (RAL 9005).
Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with additional, sturdy wall or ceiling mounting brackets (accessory)
- Double-sided version includes sturdy wall or ceiling mounting brackets.

LED digital display

2-line display, top line showing hours and minutes, cipher height 57 mm, (optional seconds: cipher height 57 mm or 38 mm), bottom line showing 10-character alpha-numeric date, character height 30 mm. Bar-type 7-segment LED ciphers and 16-segment LED characters, respectively, colour red. Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 V AC/50...60 Hz (12 V DC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.

Technical data		
Case	colour	black (RAL 9005)
	dimensions (length x width x depth)	cir. 440 x 250 x 34 mm
LED Display	cipher height hours, minutes	cir. 57 mm
	cipher height date	cir. 30 mm
	cipher height seconds (option)	cir. 38 or 57 mm
	reading distance	cir. 18...20 m
Power consumption	display	max. 5 VA

Single-sided version (on-wall mounting)	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**514**.551	**1,250.–**
DCF77 radio controlled clock [1]	230 VAC	52.**514**.551	**1,410.–**
Slave clock, minute pulse 24 V	230 VAC	71.**514**.551	**1,340.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**514**.551	**1,340.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**514**.551	**1,340.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**514**.551	**1,450.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**514**.551	**1,400.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**514**.551	**1,430.–**

Double-sided version (incl. wall or ceiling mounting brackets)	Mounting	Item No.	€ each
Quartz clock, mains operated 230 VAC	wall	42.**514**.552	**2,800.–**
	ceiling	42.**514**.553	**2,800.–**
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**514**.552	**2,960.–**
	ceiling	52.**514**.553	**2,960.–**
Slave clock, minute pulse 24 V, mains operated 230 VAC	wall	71.**514**.552	**2,890.–**
	ceiling	71.**514**.553	**2,890.–**
Telegram slave clock, *DCFport24*, operating voltage *DCFport24* [2]	wall	81.**514**.552	**2,890.–**
	ceiling	81.**514**.553	**2,890.–**
Telegram slave clock, *DCFport24*, operating voltage 230 VAC	wall	83.**514**.552	**2,890.–**
	ceiling	83.**514**.553	**2,890.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**514**.552	**3,000.–**
	ceiling	85.**514**.553	**3,000.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3], operating voltage 230 VAC	wall	91.**514**.552	**2,950.–**
	ceiling	91.**514**.553	**2,950.–**
NTP system clock (NTP client), synchronisation by LAN [4], operating voltage 230 VAC	wall	93.**514**.552	**2,980.–**
	ceiling	93.**514**.553	**2,980.–**

Accessories	Item No.	€ each
Mounting brackets for 1 single-sided clock, on wall, bracket length cir. 125 mm	01.**514**.502	**378.–**
Mounting brackets for 1 single-sided clock, on ceiling, bracket length cir. 130 mm	01.**514**.503	**378.–**
Metal covers for wall or ceiling mounting brackets	01.**515**.537	**250.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Additional 2-digit seconds display, height 38 or 57 mm	**-74**	**169.–**
City pre-sets for World Time Clock Systems	**-75**	**139.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/ network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

Indoor
digital
single- and
double-sided

Type series
514

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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LED Digital Calendar Clocks

for banks, reception areas, and other places of high publicity

Indoor
digital
single- and
double-sided

Type series
515

81.**515**.551 shown

LED digital clocks, single- or double-sided with distinct, brightly lit LED bars guarantee optimal reading clearness.

71.**515**.553 shown

81.**515**.551 **-74** shown

Case

- cir. 440 x 300 x 34 mm

Extra flat, very sturdy metal case, enamelled black (RAL 9005). Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with additional, sturdy wall or ceiling mounting brackets (accessory)
- Double-sided version includes sturdy wall or ceiling mounting brackets.

LED digital display

2-line numeric display, top line showing hours and minutes, cipher height 57 mm (optional seconds: cipher height 57 mm or 38 mm), bottom line showing 8-digit numeric date, cipher height 45 mm, readable from 18...20 m distance. All ciphers are bar-type 7-segment LED, colour red. Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC /AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2)].

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.

Technical data		
Case	colour	black (RAL 9005)
	dimensions (length x width x depth)	cir. 440 x 300 x 34 mm
Display	cipher height hours, minutes	cir. 57 mm
	cipher height date	cir. 45 mm
	cipher height seconds (option)	cir. 38 or 57 mm
	reading distance	cir. 18...20 m
Power consumption	display	max. 5 VA

Single-sided version (on-wall mounting)	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**515**.551	**1,240.–**
DCF77 radio controlled clock [1]	230 VAC	52.**515**.551	**1,400.–**
Slave clock, minute pulse 24 V	230 VAC	71.**515**.551	**1,330.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**515**.551	**1,330.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**515**.551	**1,330.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**515**.551	**1,440.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**515**.551	**1,390.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**515**.551	**1,420.–**

Double-sided version (incl. wall or ceiling mounting brackets)	Mounting	Item No.	€ each
Quartz clock, mains operated 230 VAC	wall	42.**515**.552	**2,780.–**
	ceiling	42.**515**.553	**2,780.–**
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**515**.552	**2,940.–**
	ceiling	52.**515**.553	**2,940.–**
Slave clock, minute pulse 24 V, mains operated 230 VAC	wall	71.**515**.552	**2,870.–**
	ceiling	71.**515**.553	**2,870.–**
Telegram slave clock, *DCFport24*, operating voltage *DCFport24* [2]	wall	81.**515**.552	**2,870.–**
	ceiling	81.**515**.553	**2,870.–**
Telegram slave clock, *DCFport24*, operating voltage 230 VAC	wall	83.**515**.552	**2,870.–**
	ceiling	83.**515**.553	**2,870.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**515**.552	**2,980.–**
	ceiling	85.**515**.553	**2,980.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3], operating voltage 230 VAC	wall	91.**515**.552	**2,930.–**
	ceiling	91.**515**.553	**2,930.–**
NTP system clock (NTP client), synchronisation by LAN [4], operating voltage 230 VAC	wall	93.**515**.552	**2,960.–**
	ceiling	93.**515**.553	**2,960.–**

Accessories	Item No.	€ each
Mounting brackets for 1 single-sided clock, on wall, bracket length cir. 125 mm	01.**515**.502	**378.–**
Mounting brackets for 1 single-sided clock, on ceiling, bracket length cir. 130 mm	01.**515**.503	**378.–**
Metal covers for wall or ceiling mounting brackets	01.**515**.537	**250.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Additional 2-digit seconds display, height 38 or 57 mm	**-74**	**169.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/ network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

Indoor
digital
single- and
double-sided

Type series
515

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Calendar Clocks

for banks, reception areas, and other places of high publicity

Indoor
digital
single- and
double-sided

Type series
516

81.**516**.551 shown

LED digital clocks, single- or double-sided with distinct, brightly lit LED bars guarantee optimal reading clearness.

71.**516**.553 shown

81.**516**.551 **-74** shown

Case

- cir. 440 x 300 x 34 mm

Extra flat, very sturdy metal case, enamelled black (RAL 9005). Protection grade IP 40 (EN 60 529).

Mounting

- Single-sided version for on-wall mounting, optionally with additional, sturdy wall or ceiling mounting brackets (accessory)
- Double-sided version includes sturdy wall or ceiling mounting brackets.

LED digital display

3-line display, top line showing hours and minutes, cipher height 57 mm, (optional seconds: cipher height 57 mm or 38 mm), middle line showing day of the week spelled out (up to 10 characters, character height 30 mm), bottom line showing 8-digit numeric date, cipher height 45 mm. Bar-type 7-segment LED ciphers, resp. 16-segment LED characters, colour red. Automatic brightness control. Menu selection for hour offset and suppression of leading zero. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Front glass

Flat acrylic glass.

Double-sided LED digital clocks
Double-sided clocks come completely wired and assembled.

Technical data		
Case	colour	black (RAL 9005)
	dimensions (length x width x depth)	cir. 440 x 300 x 34 mm
Display	cipher height hours, minutes	cir. 57 mm
	cipher height date	cir. 45 mm
	cipher height day of week	cir. 30 mm
	cipher height seconds (option)	cir. 38 or 57 mm
	reading distance	cir. 18...20 m
Power consumption	display	max. 5 VA

Single-sided version (on-wall mounting)	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**516**.551	**1,500.–**
DCF77 radio controlled clock [1]	230 VAC	52.**516**.551	**1,660.–**
Slave clock, minute pulse 24 V	230 VAC	71.**516**.551	**1,590.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**516**.551	**1,590.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**516**.551	**1,590.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**516**.551	**1,700.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**516**.551	**1,650.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**516**.551	**1,680.–**

Double-sided version (incl. wall or ceiling mounting brackets)	Mounting	Item No.	€ each
Quartz clock, mains operated 230 VAC	wall ceiling	42.**516**.552 42.**516**.553	**3,300.–** **3,300.–**
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall ceiling	52.**516**.552 52.**516**.553	**3,540.–** **3,540.–**
Slave clock, minute pulse 24 V, mains operated 230 VAC	wall ceiling	71.**516**.552 71.**516**.553	**3,480.–** **3,480.–**
Telegram slave clock, *DCFport24*, operating voltage *DCFport24* [2]	wall ceiling	81.**516**.552 81.**516**.553	**3,480.–** **3,480.–**
Telegram slave clock, *DCFport24*, operating voltage 230 VAC	wall ceiling	83.**516**.552 83.**516**.553	**3,480.–** **3,480.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall ceiling	85.**516**.552 85.**516**.553	**3,700.–** **3,700.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3], operating voltage 230 VAC	wall ceiling	91.**516**.552 91.**516**.553	**3,600.–** **3,600.–**
NTP system clock (NTP client), synchronisation by LAN [4], operating voltage 230 VAC	wall ceiling	93.**516**.552 93.**516**.553	**3,660.–** **3,660.–**

Accessories	Item No.	€ each
Mounting brackets for 1 single-sided clock, on wall, bracket length cir. 125 mm	01.**516**.502	**378.–**
Mounting brackets for 1 single-sided clock, on ceiling, bracket length cir. 130 mm	01.**516**.503	**378.–**
Metal covers for wall or ceiling mounting brackets	01.**515**.537	**250.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Additional 2-digit seconds display, height 38 or 57 mm	**-74**	**169.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

Indoor
digital
single- and
double-sided

Type series
516

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Clocks with rim-circle seconds indication
ideal for broadcasting facilities and places of high publicity

Indoor
digital
single-sided

Type series
525

83.**525**.551 **-77** shown

83.**525**.551 **-77** shown

83.**525**.551 **-75 -77** shown

83.**525**.551 **-77 -88** shown

This 400 x 400 mm wall clock as standard shows the digital time in hours and minutes and has a circumferencial ring of red LED bar marks that show the seconds, counting up. An additional 8-character alphanumeric LED display line makes this clock a veritable "information centre". Depending on the features selected this clock is capable of providing all the information required for the assigned function – exact, professional, attractive, and outright reliable!

Possible indications:
- 8-digit date display (25.09.2023)
- day of the week, spelled out (Monday)
- day of the week, abbreviated and date (Mon 25.09.)
- day of month and abbreviated month (25. Sep 23), multilingual
- additional display for seconds (48)
- stopwatch function (hh/mm/ss)
- temperature (20°C)
- city names at customer´s choice with corresponding world time and time-zone details (city pre-sets, see pages 128 and 129).

Whether as a single clock, as a calendar clock full of information or integrated as "master" or "slave" in a World Time Display System – this clock speaks all languages and meets all demands!

Case
■ cir. 400 mm diameter
metal, as standard enamelled jet black (RAL 9005). Optionally, at a surcharge, custom enamelled or with stainless steel case (1.4301 X5CrNi 18-10, German trade name V2A), in a matted finish.
Protection grade IP 40 (EN 60 529).

LED digital display(s)
4-digit hour and minute display, bar-type 7-segment LED ciphers, height 57 mm, colour red. Circumferencial ring of red LED bars indicating the seconds, counting up. Automatic brightness control. Hour offset or leading zero selectable via menu. Minimum 100 hours data retention in case of power loss. Operating voltage 230 V AC/50...60 Hz (12 V DC/12 V AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Alphanumeric display (option)
16-segment alphanumeric LED bar character display, up to 8 characters, character height 30 mm, to display numeric and alphanumeric information, e. g. day of the week, month, date, and seconds. At a surcharge, end times (stopwatch mode, option) or city names (option), can be displayed. Selection via menu. Alternating display possible. Various languages.

Front glass
Flat, shock-resistant Plexiglas®.

World Time Display System (option)
PEWETA LED digital clocks can be integrated into a professional and intelligent World Time Display System by the PEWETA *digital RS 485* data bus. Each individual LED digital clock receives the "pre-sets" pertaining to various time zones and city names. Upon selection of a time zone, local time will be displayed, regarding zone offset and local change-over dates for summer and winter time.

Stopwatch mode (option)
These clocks can be fitted with an additional stopwatch mode (count-up/count-down). The 8-digit alphanumeric display (option) will show hours, minutes and seconds, counting up from start or down from a pre-selected value. This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical data see page 133.

Clock type	Operating voltage	Item No.	€ each
Quartz clock	230 V AC	42.**525**.551	**1,490.–**
DCF77 radio controlled clock [1]	230 V AC	52.**525**.551	**1,650.–**
Slave clock, minute pulse 24 V	230 V AC	71.**525**.551	**1,580.–**
Telegram slave clock, *DCFport24*, 24 V [2]	*DCFport24*	81.**525**.551	**1,580.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 V AC	83.**525**.551	**1,580.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 V AC	85.**525**.551	**1,690.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**525**.551	**1,640.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 V AC	93.**525**.551	**1,670.–**

Accessories	Item No.	€ each
Remote control unit "Basic PRO" for stopwatch function, *PEWETA digital RS485 version* [5]	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [6]	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case stainless steel V2A, matted finish	**-20**	**109.–**
Operating voltage 12 V DC (instead of 230 V AC)	**-70**	**none**
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
City pre-sets for World Time Clock Systems	**-75**	**139.–**
Additional 8-character alphanumeric display	**-77**	**325.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

43.**548**.251

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[6] Works with NTP system clock (NTP client) clock types only..

Indoor
digital
single-sided

Type series
525

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Clocks with rim-circle seconds indication
ideal for broadcasting facilities and places of high publicity

Indoor
digital
single-sided

Type series
526

83.**526**.551 **-77** shown

83.**526**.551 **-77** shown

83.**526**.551 **-75 -77** shown

83.**526**.551 **-77 -88** shown

This 400 x 400 mm wall clock as standard shows the digital time in hours and minutes and has a circumferencial ring of red LED bar marks that show the seconds, counting up. An additional 8-character alphanumeric LED display line makes this clock a veritable "information centre". Depending on the features selected this clock is capable of providing all the information required for the assigned function – exact, professional, attractive, and outright reliable!

Possible indications:
- 8-digit date display (25.09.2023)
- day of the week, spelled out (Monday)
- day of the week, abbreviated and date (Mon 25.09.)
- day of month and abbreviated month (25. Sep 23), multilingual
- additional display for seconds (48)
- stopwatch function (hh/mm/ss)
- temperature (20°C)
- city names at customer´s choice with corresponding world time and time-zone details (city pre-sets, see pages 128 and 129).

Whether as a single clock, as a calendar clock full of information or integrated as "master" or "slave" in a World Time Display System – this clock speaks all languages and meets all demands!

Case
■ cir. 400 x 400 mm
metal, as standard enamelled jet black (RAL 9005). Optionally, at a surcharge, custom enamelled.
Protection grade IP 40 (EN 60 529).

LED digital display(s)
4-digit hour and minute display, bar-type 7-segment LED ciphers, height 57 mm, colour red. Circumferencial ring of red LED bars indicating the seconds, counting up. Automatic brightness control. Hour offset or leading zero selectable via menu. Minimum 100 hours data retention in case of power loss. Operating voltage 230 VAC/50...60 Hz (12 VDC/12 VAC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Alphanumeric display (option)
16-segment alphanumeric LED bar character display, up to 8 characters, character height 30 mm, to display numeric and alphanumeric information, e. g. day of the week, month, date, and seconds. At a surcharge, end times (stopwatch mode, option) or city names (option), can be displayed. Selection via menu. Alternating display possible. Various languages.

Front glass
Flat, shock-resistant Plexiglas®.

World Time Display System (option)
PEWETA LED digital clocks can be integrated into a professional and intelligent World Time Display System by the PEWETA *digital RS 485* data bus. Each individual LED digital clock receives the "pre-sets" pertaining to various time zones and city names. Upon selection of a time zone, local time will be displayed, regarding zone offset and local change-over dates for summer and winter time.

Stopwatch mode (option)
These clocks can be fitted with an additional stopwatch mode (count-up/count-down). The 8-digit alphanumeric display (option) will show hours, minutes and seconds, counting up from start or down from a pre-selected value. This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical data see page 133.

Clock type	Operating voltage	Item No.	€ each
Quartz clock	230 VAC	42.**526**.551	**1,490.–**
DCF77 radio controlled clock [1]	230 VAC	52.**526**.551	**1,650.–**
Slave clock, minute pulse 24 V	230 VAC	71.**526**.551	**1,580.–**
Telegram slave clock, *DCFport24*, 24 V [2]	*DCFport24*	81.**526**.551	**1,580.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 VAC	83.**526**.551	**1,580.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 VAC	85.**526**.551	**1,690.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**526**.551	**1,640.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 VAC	93.**526**.551	**1,670.–**

Accessories	Item No.	€ each
Remote control unit "Basic PRO" for stopwatch function, *PEWETA digital RS485 version* [5]	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [6]	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Operating voltage 12 VDC (instead of 230 VAC)	**-70**	**none**
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
City pre-sets for World Time Clock Systems	**-75**	**139.–**
Additional 8-character alphanumeric display	**-77**	**295.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS receiving aerial (IP 65/EN 60 529)	**-95**	**695.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

43.**548**.251

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[6] Works with NTP system clock (NTP client) clock types only..

Indoor
digital
single-sided

Type series
526

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED World Time Clocks

as stand-alone units or combined into an integrated system

Indoor
digital
single-sided

Type series
535

42.**535**.521 shown

42.**535**.531 shown

These PEWETA World Time Displays can be used as stand-alone units as well as combined with further LED World Time Displays into an integrated system. Permanent text overlays below the time displayed indicate the names of the cities chosen. The software already contains the "pre-sets" pertaining to various time zones and city names, so that all units can easily be set up to always show the correct time.

42.**535**.911 shown

LED digital clock, 4 digits, cipher height 100 mm, local time display

Case
- cir. 520 x 250 x 43 mm
- cir. 770 x 250 x 43 mm

sturdy metal case for on-wall mounting, as standard enamelled jet black (RAL 9005). Optionally, at a surcharge, custom enamelled.
Protection grade IP 40 (EN 60 529).

LED digital display
- Cipher height 57 mm, 4 digits, for world time displays
- Cipher height 100 mm, 4 or 6 digits, for local time displays

bar-type 7-segment LED ciphers, colour red (optionally, at a surcharge, amber, green or blue), automatic brightness control. Hour offset or leading zero may be selected via menu. Minimum 100 hours data retention in case of power loss. Operating voltage 230 V AC/50...60 Hz.

Front glass
Flat acrylic glass

City "pre-set"
City "pre-sets" turn any PEWETA LED digital clock into an intelligent, professional World Time Clock. Each display unit will receive a custom "pre-set" according to the name of the city chosen by the customer. This setting includes the individual time zone and the individual dates for change-over from summer to winter time and vice versa. Manual adjustment by menu is possible.

Alphanumeric LED digital display (option)
Alphanumeric LED digital display for city names instead of text overlays. 16-segment LED readout, max. 8 characters, character height 30 mm. The time zone desired and the name of the city are set by internal menu and may be changed at any time.

Case options
On request, we offer further case variations for our LED World Time Clocks. Everything is possible: **stainless steel front panels**, cases for **in-wall mounting** or **double-sided** displays! Tell us about your requirements and we will be pleased to submit our quotation.

Display 42.**535**.521 with stainless steel front panel

42.**535**.521 **-72** shown

Indoor
digital
single-sided

Type series
535

Clock type	Cipher height	Dimensions (WHD)	Item No.	€ each
World time display with 2 world times (hour/minute)	57 mm	cir. 520 x 250 x 43 mm	42.**535**.521	**1,450.–**
World time display with 3 world times (hour/minute)	57 mm	cir. 770 x 250 x 43 mm	42.**535**.531	**1,950.–**
Local time display, 4 digits (hour/minute)	100 mm	cir. 520 x 250 x 43 mm	42.**535**.911	**1,250.–**
Local time display, 6 digits (hour/minute/second)	100 mm	cir. 770 x 250 x 43 mm	42.**535**.921	**1,490.–**

Accessory	Item No.	€ each
External DCF77 receiving aerial (IP 68) for synchronisation with local time	03.**925**.151	**174.–**

Options	Suffix	Surcharge € each
Alphanumeric LED display for city names (instead of fixed overlay), 8 digits, cipher height 30 mm (surcharge per display/time zone)	**-72**	**339.–**
Amber LEDs (57 mm cipher height only, surcharge per display/time zone)	**-78**	**49.–**
Green LEDs (57 mm cipher height only, surcharge per display/time zone)	**-79**	**89.–**
Blue LEDs (57 mm cipher height only, surcharge per display/time zone)	**-80**	**89.–**
DCFport24 input for synchronisation with local time	**-93**	**95.–**
AirPort24 input for synchronisation with local time	**-94**	**179.–**
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**
NTP input for system time synchronisation via LAN (optionally incl. power supply via PoE)	**-98**	**179.–**

Examples of World Time Clock Systems

Compile your PEWETA World Time Clock System according to your individual ideas and requirements. Depending on the number of time zones desired, all types of PEWETA LED display units may be combined freely.

World Time Clock System with 5 time zones, consisting of 1 local time display (center) and 2 world time displays with 2 world times each

World Time Clock System with 7 time zones, consisting of 1 local time display (center) and 2 world time displays with 3 world times each

World Time Clock System with 7 time zones,
consisting of 1 world time display with 3 world times and 2 world time displays with 2 world times each

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Clocks

as modules for mounting in 19" racks (1 modular height unit)

Indoor
digital
19" rack

Type series
540

Type series
541

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

71.**541**.250 shown

Case
19" face plate, 1 HU, aluminium, enamelled black, acrylic front glass. W x H x D: cir. 400 x 44 x 100 mm. Protection grade IP 40 (EN 60 529).

LED digital display
Display of hours, minutes, and seconds, 6 digits, bar-type 7-segment LED ciphers, height 25 mm, colour red. Choice of one or two 6-digit displays per rack module, individually selectable as either real time clock and/or stopwatch (optional). Automatic brightness control. Hour offset or leading zero may be selected via menu. Operating voltage 12 VDC (wall-plug adapter 230 VAC/12 VDC included in delivery shipment). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Stopwatch mode (option)
These clocks can be fitted with an additional stopwatch mode (count-up/count-down). The 6-digit numeric display (option) will show hours, minutes and seconds, counting up from start or down from a preselected value. This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical data see page 133.

Single display	Operating voltage	Item No.	€ each
Quartz clock	12 VDC	43.**540**.250	**980.–**
DCF77 radio controlled clock [1]	12 VDC	53.**540**.250	**1,170.–**
Slave clock, minute pulse 24 V	12 VDC	71.**540**.250	**1,070.–**
Telegram slave clock, *DCFport24*, 24 V [2]	*DCFport24*	81.**540**.250	**1,070.–**
Telegram slave clock, *DCFport24*, 12/24 V	12 VDC	83.**540**.250	**1,070.–**
RC telegram slave clock, *AirPort24*, with outage reserve	12 VDC	85.**540**.250	**1,200.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**540**.250	**1,190.–**
NTP system clock (NTP client), synchronisation by LAN [4]	12 VDC	93.**540**.250	**1,190.–**

Double display	Operating voltage	Item No.	€ each
Quartz clock	12 VDC	43.**541**.250	**1,450.–**
DCF77 radio controlled clock [1]	12 VDC	53.**541**.250	**1,640.–**
Slave clock, minute pulse 24 V	12 VDC	71.**541**.250	**1,540.–**
Telegram slave clock, *DCFport24* [2]	*DCFport24*	81.**541**.250	**1,540.–**
Telegram slave clock, *DCFport24*, 12/24 V	12 VDC	83.**541**.250	**1,540.–**
RC telegram slave clock, *AirPort24*, with outage reserve	12 VDC	85.**541**.250	**1,670.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**541**.250	**1,660.–**
NTP system clock (NTP client), synchronisation by LAN [4]	12 VDC	93.**541**.250	**1,660.–**

Accessories	Item No.	€ each
Remote control unit "Basic PRO" for stopwatch function, *PEWETA digital RS485 version* [5]	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [6]	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**

43.**548**.251

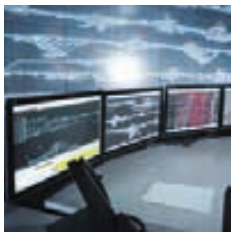
[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[6] Works with NTP system clock (NTP client) clock types only..

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Clocks

as modules for mounting in 19" racks (2 modular height units)

71.**542**.550 shown



Indoor
digital
19" rack

Type series
542

Case

19" face plate, 2 HU, aluminium, enamelled black, acrylic front glass. W x H x D: cir. 400 x 88 x 40 mm. Protection grade IP 40 (EN 60 529).

LED digital display

Display of hours, minutes, and seconds, 6 digits, bar-type 7-segment LED ciphers, height 57 mm, colour red (optionally amber, green or blue at a surcharge). Automatic brightness control. Hour offset or leading zero may be selected via menu. Operating voltage 12 VDC (wall-plug adapter 230 VAC/12 VDC included in delivery shipment) · Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Stopwatch mode (option)

These clocks can be fitted with an additional stopwatch mode (count-up/count-down). The 6-digit numeric display (option) will show hours, minutes and seconds, counting up from start or down from a pre-selected value. This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical data see page 133.

Single display	Operating voltage	Item No.	€ each
Quartz clock	12 VDC	43.**542**.550	**1,100.–**
DCF77 radio controlled clock [1]	12 VDC	53.**542**.550	**1,290.–**
Slave clock, minute pulse 24 V	12 VDC	71.**542**.550	**1,190.–**
Telegram slave clock, *DCFport24*, 24 V [2]	*DCFport24*	81.**542**.550	**1,190.–**
Telegram slave clock, *DCFport24*, 12/24 V	12 VDC	83.**542**.550	**1,190.–**
RC telegram slave clock, *AirPort24*, with outage reserve	12 VDC	85.**542**.550	**1,320.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**542**.550	**1,310.–**
NTP system clock (NTP client), synchronisation by LAN [4]	12 VDC	93.**542**.550	**1,310.–**

Accessories	Item No.	€ each
Remote control unit "Basic PRO" for stopwatch function, *PEWETA digital RS485 version* [5]	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [6]	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
Amber LEDs	**-78**	**69.–**
Green LEDs	**-79**	**125.–**
Blue LEDs	**-80**	**125.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Alternating temperature display (external temperature sensor included)	**-88**	**295.–**
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**

Options – just as *you* like them ...

These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

43.**548**.251

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[6] Works with NTP system clock (NTP client) clock types only..

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Clocks
for control panels and consoles

Indoor
digital
panel-mounted

Type series
545

71.**545**.250 shown

Case
For flush panel mounting, face plate stainless steel (1.4301 X5CrNi 18/10, German trade name V2A), matted finish, acrylic front glass.
W x H x D: cir. 257 x 64 x 77 mm.
Protection grade IP 40 (EN 60 529).

LED digital display
Display of hours, minutes, and seconds, 6 digits, bar-type 7-segment LED ciphers, height 25 mm, colour red. Automatic brightness control. Configurable as time display or for count-up/count-down function (option). Hour offset or leading zero may be selected via menu. Minimum 100 hours data retention in case of power loss. Operating voltage 230 V AC/50…60 Hz (12 V DC/AC optional). Under specific circumstances, the bus voltage may suffice to operate PEWETA *DCFport24* version clocks[2].

Stopwatch mode (option)
These clocks can be fitted with an additional stopwatch mode (count-up/count-down). The 6-digit numeric display (option) will show hours, minutes and seconds, counting up from start or down from a pre-selected value. This mode is controlled by a wire-bound »Basic PRO« control unit (accessory). For technical data see page 133.

Technical data		
Case	stainless steel V2A	matted finish
	dimensions (width x height x depth)	cir. 257 x 64 x 77 mm
	panel cut-out (width x height)	cir. 228 x 56 mm
Display	cipher height (hh/mm/ss)	25 mm
	readability	cir. 5…7 m
Power consumption		cir. 9 VA

Clock type	Operating voltage	Item No.	€ each
Quartz clock	230 V AC	42.**545**.250	**950.–**
DCF77 radio controlled clock [1]	230 V AC	52.**545**.250	**1,140.–**
Slave clock, minute pulse 24 V	230 V AC	71.**545**.250	**1,040.–**
Telegram slave clock, *DCFport24*, 24 V [2]	*DCFport24*	81.**545**.250	**1,040.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 V AC	83.**545**.250	**1,040.–**
RC telegram slave clock, *AirPort24*, with outage reserve	230 V AC	85.**545**.250	**1,190.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	PoE	91.**545**.250	**1,160.–**
NTP system clock (NTP client), synchronisation by LAN [4]	230 V AC	93.**545**.250	**1,180.–**

Accessories	Item No.	€ each
Remote control unit "Basic PRO" for stopwatch function, *PEWETA digital RS485 version* [5]	43.**548**.251	**1,250.–**
Remote control unit "Basic PRO" for stopwatch function, NTP/PoE version [6]	91.**548**.251	**1,290.–**

Options	Suffix	Surcharge € each
Stopwatch mode »count-up/count-down« (control unit is an accessory)	**-71**	**169.–**
PEWETA *digital RS 485* master (output)	**-82**	**100.–**
PEWETA *digital RS 485* slave (input)	**-83**	**100.–**
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

43.**548**.251

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] Due to power consumption the number of clocks within the system/network is limited. Please ask for details when interested.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.
[4] NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.
[5] Works with LED digital clocks including the *PEWETA digital RS485* »master« option only.
[6] Works with NTP system clock (NTP client) clock types only..

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

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»Basic PRO« Remote Control Unit

for LED digital clocks equipped with stopwatch mode

This active, wire-bound "Basic PRO" remote control unit is capable of turning PEWETA LED digital clocks into stopwatches (stopwatch mode is an option), and acts as a terminal for their operation. Connection can be established either via PEWETA *digital RS 485* data bus or via NTP. *Both versions* enable synchronous count-up/count-down functions of all connected LED digital clocks. Since each clock within the system can be addressed individually, one remote control unit can control several stopwatches in various locations or several remote control units, e.g. at different work stations, can simultaneously trigger one LED stopwatch. By means of software, these functions can be flexibly defined and can be easily selected by the user.

Case

Sturdy plastic tip-up case for desktop use. Dimensions (length x width) cir. 175 x 105 mm.
5" LCD touchscreen, active area cir. 108 x 65 mm, for easy operation. The status line at the top of the screen shows the current date and time as well as the status of the *PEWETA digital RS 485* or NTP connection, respectively.

Types

- ***PEWETA digital RS485***
  Connection to an LED digital clock via *PEWETA digital RS485 bus*. Time and date as well as operating power are transferred to the remote control from a type *PEWETA Datenbus RS485* „master" LED digital clock. Each remote control unit and LED digital clock can be addressed individually.
- **NTP**
  This remote control unit features a network connection (RJ45). Time and date are imported via NTP. Power is supplied via PoE (Power over Ethernet). Remote control units and LED digital clocks may be individually assigned via a web browser. Operation in connection with NTP system clock (NTP client) clock types only.

43.**548**.151 shown

Type	Item No.	€ each
Quartz time base, PEWETA *digital RS 485*	43.**548**.151	**1,250.–**
NTP/PoE	91.**548**.151	**1,390.–**

Option	Suffix	Surcharge € each
Custom-programmed software layout and (special) functions as demanded	**05.548**.200	**on request**

Functions

- **Count up**
  Count up from "00:00:00"
- **Count down**
  Enter a start value in hours, minutes, and seconds. Count down to "00:00:00"
- **Count down to (target time)**
  Enter a target time. The time remaining will be automatically calculated and displayed. Count down to "00:00:00".

Remote control unit for LED digital clocks

Type series **548**

LCD Digital Clocks

ideal for prestigious rooms and places of high publicity

Indoor
digital
single-sided

Type series
550

LCD digital clocks displaying hours and minutes. High definition, high contrast LCD display for outstanding readability even at extremely sharp angles.

Case

Extra flat AluNox® metal case with anodized surface.

LCD digital display

- cipher height 90 mm
- cipher height 140 mm

Single line LCD display, 4 digits, extra large black 9-segment ciphers showing hours and minutes. Optionally, room temperature may be displayed alternating with time.

52.**550**.991 shown

Technical data		Cipher height 90 mm	Cipher height 140 mm
Case	material	AluNox®	AluNox®
	dimensions (W x H x D)	cir. 400 x 250 x 28 mm	cir. 540 x 334 x 30 mm
Display	cipher height hours/minutes	90 mm	140 mm
	reading distance	cir. 35 m	cir. 50 m
Weight		cir. 0.9 kg	cir. 1.2 kg

Clock type ▶ Cipher height	90 mm Item No.	€ each	140 mm Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**550**.791	**469.–**	51.**550**.991	**599.–**
DCF77 radio controlled clock, mains operated 230 VAC	52.**550**.791	**559.–**	52.**550**.991	**689.–**
Slave clock, minute pulse 12/24 V[1)]	71.**550**.791	**539.–**	71.**550**.991	**669.–**
Telegram slave clock, *DCFport24*, 12/24 V[2)]	81.**550**.791	**539.–**	81.**550**.991	**669.–**

Accessory	Item No.	€ each
External DCF77 receiving aerial (IP 31), for radio controlled types (required only if reception quality is poor)	03.**925**.171	**110.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Integrated power supply for 230 VAC mains operation instead of battery operation (on clock type 71.**xxx** only)	**-69**	**98.–**
Alternating room temperature display (**internal** temperature sensor)	**-91**	**69.–**
Alternating room temperature display (**external** temperature sensor, IP 31)	**-92**	**99.–**

[1)] Operation of the LCD display requires batteries (LR 6/AA type, included in delivery shipment) or an integrated power supply (optional).
[2)] Operating voltage is supplied by the master clock via *DCFport24* telegram (current draw cir. 10 mA).

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

AluNox®
AluNox® is an anodised aluminium. While resistant to corrosion, detergents, and disinfectants, it is also abrasion-proof. The surface of AluNox® is visually very similar to stainless steel with a matted finish, yet is noticeably lighter and impervious against fingerprints. Therefore, AluNox® is excellently suited for areas where its visual resemblance of stainless steel will mainly serve decorative purposes.

52.**550**.791

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LCD Digital Clocks

ideal for prestigious rooms and places of high publicity

LCD digital clocks displaying hours, minutes, and seconds. High definition, high contrast LCD display for outstanding readability even at extremely sharp angles.

Case

Extra flat, sturdy plastic case enamelled metallic silver as standard.

LCD digital display

Single line LCD display with extra large black 9-segment ciphers showing hours and minutes (cipher height 75 mm), as well as seconds (cipher height 60 mm). Optionally, room temperature may be displayed alternating with time.

71.**560**.791 shown

Technical data		
Case	colour	metallic silver
	dimensions (W x H x D)	cir. 422 x 225 x 40 mm
Display	cipher height hours/minutes	75 mm
	cipher height seconds	60 mm
	reading distance	cir. 30 m
Weight		cir. 1.23 kg

Clock type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**551**.791	**479.–**
DCF77 radio controlled clock, mains operated 230 VAC	52.**551**.791	**569.–**
Slave clock, minute pulse 12/24 V[1]	71.**551**.791	**549.–**
Telegram slave clock, *DCFport24*, 12/24 V[2]	81.**551**.791	**549.–**

Accessory	Item No.	€ each
External DCF77 receiving aerial (IP 31), for radio controlled types (required only if reception quality is poor)	03.**925**.171	**110.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Integrated power supply for 230 VAC mains operation instead of battery operation (on clock type 71.**xxx** only)	**-69**	**98,–**
Alternating room temperature display (**internal** temperature sensor)	**-91**	**69,–**
Alternating room temperature display (**external** temperature sensor, IP 31)	**-92**	**99,–**

[1] Operation of the LCD display requires batteries (LR 6/AA type, included in delivery shipment) or an integrated power supply (optional).
[2] Operating voltage is supplied by the master clock via *DCFport24* telegram (current draw cir. 10 mA).

Indoor
digital
single-sided

Type series
551

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

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LCD Digital Clocks with Date Display

ideal for offices, conference rooms, and reception areas

Indoor
digital
single-sided

Type series
565

LCD digital clocks with date display, 3 lines with the day-of-week spelled out. High definition, high contrast LCD display for outstanding readability even at extremely sharp angles.

Case

Extra flat AluNox® metal case with anodized surface.

LCD digital display

3-line LCD display with extra large black 9- and 42-segment ciphers respectively, top line showing hours and minutes (4 digits, cipher height 59 mm), middle line showing the day-of-week spelled out (10 digits, character height 22 mm), bottom line showing the date (6 digits, cipher height 38 mm). Optionally, room temperature may be displayed alternating with time or date.

51.**565**.391 shown

Technical data		
Case	material	AluNox®
	dimensions (W x H x D)	cir. 318 x 285 x 26 mm
Display	cipher height hours/minutes	59 mm
	character height date	38 mm
	character height day-of-week	22 mm
	reading distance	cir. 10 m
Weight		cir. 0.9 kg

Clock type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**565**.391	**579.–**
DCF77 radio controlled clock, mains operated 230 V AC	52.**565**.391	**669.–**
Slave clock, minute pulse 12/24 V[1]	71.**565**.391	**649.–**
Telegram slave clock, *DCFport24*, 12/24 V[2]	81.**565**.391	**649.–**

Accessory	Item No.	€ each
External DCF77 receiving aerial (IP 31), for radio controlled types (required only if reception quality is poor)	03.**925**.171	**110.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Integrated power supply for 230 V AC mains operation instead of battery operation (on clock type 71.**xxx** only)	**-69**	**98,–**
Alternating room temperature display (**internal** temperature sensor)	**-91**	**69,–**
Alternating room temperature display (**external** temperature sensor, IP 31)	**-92**	**99,–**

[1] Operation of the LCD display requires batteries (LR 6/AA type, included in delivery shipment) or an integrated power supply (optional).
[2] Operating voltage is supplied by the master clock via *DCFport24* telegram (current draw cir. 10 mA).

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

AluNox®
AluNox® is an anodised aluminium. While resistant to corrosion, detergents, and disinfectants, it is also abrasion-proof. The surface of AluNox® is visually very similar to stainless steel with a matted finish, yet is noticeably lighter and impervious against fingerprints. Therefore, AluNox® is excellently suited for areas where its visual resemblance of stainless steel will mainly serve decorative purposes.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Analog Clocks with LCD Date Display

ideal for offices, conference rooms, and reception areas

Classic analog clock combined with a 2-line, high definition, high contrast LCD display showing the day-of-week and the date.

Case

Extra flat AluNox® metal case with anodized surface.

Analog clock

Mechanical analog time display, face with Arabic numerals, print diameter cir. 247 mm. Exposed, black bar-type hands indicating hours and minutes, no front glass.

LCD digital display

2-line, alphanumeric 42-segment LCD display, 12 digits, character height 26 mm, showing day-of-week spelled out and date. Various date display formats can be selected by menu. Optionally, room temperature may be displayed alternating with the date.

Protective plexiglas cover (option)

The clocks of this type series can be supplied with an additional plexiglas cover to protect the hands. Please add this option to your initial order if required. This option cannot be retrofitted.

71.**568**.791 shown

Technical data		
Case	material	AluNox®
	dimensions (W x H x D)	cir. 280 x 403 x 30 mm
Display	cipher height hours/minutes	cir. 245 mm
	character height day-of-week/date	cir. 26 mm
	reading distance	cir. 10 m
Weight		cir. 2 kg

Clock type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**568**.791	**625.–**
DCF77 radio controlled clock, mains operated 230 VAC	52.**568**.791	**715.–**
Slave clock, minute pulse 12/24 V[1]	71.**568**.791	**695.–**
Telegram slave clock, *DCFport24*, 12/24 V[2]	81.**568**.791	**695.–**

Accessory	Item No.	€ each
Protective plexiglas cover (cannot be added later)	01.**568**.100	**149.–**
External DCF77 receiving aerial (IP 31), for radio controlled types (required only if reception quality is poor)	03.**925**.171	**110.–**

Options	Suffix	Surcharge € each
Integrated power supply for 230 VAC mains operation instead of battery operation (on clock type 71.**xxx** only)	**-69**	**98,–**
Alternating room temperature display (**internal** temperature sensor)	**-91**	**69,–**
Alternating room temperature display (**external** temperature sensor, IP 31)	**-92**	**99,–**

[1] Operation of the LCD display requires batteries (LR 6/AA type, included in delivery shipment) or an integrated power supply (optional).
[2] Operating voltage is supplied by the master clock via *DCFport24* telegram (current draw cir. 10 mA).

AluNox®
AluNox® is an anodised aluminium. While resistant to corrosion, detergents, and disinfectants, it is also abrasion-proof. The surface of AluNox® is visually very similar to stainless steel with a matted finish, yet is noticeably lighter and impervious against fingerprints. Therefore, AluNox® is excellently suited for areas where its visual resemblance of stainless steel will mainly serve decorative purposes.

52.**568**.791 with **01.568**.100

Indoor
analog/digital
single-sided

Type series
568

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Analog Clocks with LCD Date Display

ideal for offices, conference rooms, and reception areas

Indoor
analog/digital
single-sided

Type series
570

Classic analog clock combined with a high definition, high contrast LCD display showing the date.

Case
Extra flat, sturdy metal case, enamelled metallic silver.

Analog clock
Mechanical analog time display, face with black bar markings, print diameter cir. 380 mm. Exposed, black bar-type hands indicating hours and minutes, no front glass.

LCD digital display
Single line alphanumeric 42-segment LCD display, 12 digits, character height 40 mm, showing the date. Various date display formats can be selected by menu. Optionally, room temperature may be displayed alternating with the date.

52.**570**.791 shown

Technical data		
Case	material	aluminium
	colour	metallic silver
	dimensions (W x H x D)	cir. 430 x 525 x 30 mm
Display	face diameter	380 mm
	cipher/character height date	40 mm
	reading distance	cir. 20 m
Weight		cir. 2.4 kg

Clock type	Item No.	€ each
DCF77 radio controlled clock, battery operated 1.5 V	51.**570**.791	**879.–**
DCF77 radio controlled clock, mains operated 230 V AC	52.**570**.791	**969.–**
Slave clock, minute pulse 12/24 V[1)]	71.**570**.791	**949.–**
Telegram slave clock, *DCFport24*, 12/24 V[2)]	81.**570**.791	**949.–**

Accessory	Item No.	€ each
External DCF77 receiving aerial (IP 31), for radio controlled types (required only if reception quality is poor)	03.**925**.171	**110.–**

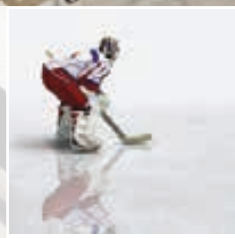
Options	Suffix	Surcharge € each
Integrated power supply for 230 V AC mains operation instead of battery operation (on clock type 71.**xxx** only)	**-69**	**98,–**
Alternating room temperature display (**internal** temperature sensor)	**-91**	**69,–**
Alternating room temperature display (**external** temperature sensor, IP 31)	**-92**	**99,–**

DCF77 radio controlled clocks
DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.) and under conditions of free radio propagation and may be impaired in heavily reinforced concrete structures. For this case we recommend a remotable DCF77 aerial (option).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

[1)] Operation of the LCD display requires batteries (LR 6/AA type, included in delivery shipment) or an integrated power supply (optional).
[2)] Operating voltage is supplied by the master clock via *DCFport24* telegram (current draw cir. 10 mA).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.



LED digital displays
single-sided
indoor

LED Digital Displays

resistant to thrown balls

- **Time-/Date Displays**
- **Game Result Displays (Scoreboards)**

single-sided · indoor

These digital displays are champions when it comes to displaying information and results doubt-free and easy to comprehend. Optimum clearness of display combined with premium quality – a professional choice in every aspect!

LED Digital Displays, indoor
for sports, business, and industry

LED digital displays
single-sided
indoor

Type series
610

52.**610**.161 shown

Large, very sturdy digital displays with distinct, double-row LEDs, optimum readability for all kinds of large rooms and halls, including gymnasiums.

For sports applications, these LED digital displays can also be used as stopwatches. Besides basic count-up and count-down functions a complete training program with various cycles and breaks that starts automatically when triggered can be programmed using the infrared remote control, included in delivery shipment. An additional built-in buzzer resounding at the end of count-down, cycle and break can be supplied at a surcharge (option).

Examples show time, date, temperature (option), and stopwatch modes

LED digital displays for outdoors
see pages 166 and 167.

Case
- cir. 830 x 320 x 90 mm (cipher height 160 mm)
- cir. 1230 x 400 x 90 mm (cipher height 250 mm)

very sturdy aluminium case, enamelled black.
Protection grade IP 40 (EN 60 529).

Resistance to thrown balls
LED digital displays of this type series are resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3 and thus are suitable for gymnasiums and other indoor sporting facilities.

Mounting
On-wall mounting.

Front glass
Flat shock-resistant plastic glass.

LED digital display
7-segment display technology, colour red, manual brightness control in 4 steps. 4-digit display with double-row LEDs showing hours and minutes, date, and temperature (option), either permanently or alternating, intervals adjustable. Operating voltage 230 V AC/50..60 Hz.

Infrared remote control unit
All settings and the operation of the stopwatch mode are triggered by a wireless infrared remote control unit, included in delivery shipment.

Stopwatch mode
This LED digital display can also be used as a stopwatch in count-up, count-down, and training modes. The 4-digit LED display shows minute and second readings. Operation by the wireless infrared remote control unit included.
Functions possible:
- **count-up** with split times
- **count-down** with indication of initial value
- **training** with adjustable number and duration of cycles and breaks.

Further models
of this type series with different cipher heights and/or with a 6-digit display (hh:mm:ss) are available on request .

LED digital displays
single-sided
indoor

Type series
610

Technical data		Cipher height 160 mm	Cipher height 250 mm
Case	colour	black (RAL 9005)	black (RAL 9005)
	dimensions (W x H x D)	cir. 830 x 320 x 90 mm	cir. 1230 x 400 x 90 mm
	weight	cir. 10 kg	cir. 15 kg
LED display	cipher height hours/minutes	cir. 160 mm	cir. 250 mm
	cipher colour	red	red
	reading distance	cir. 70 m	cir. 110 m

Type	Cipher height ▶ Operating voltage ▼	160 mm Item No.	€ each	250 mm Item No.	€ each
Quartz clock	230 V AC	42.**610**.161	**1,950.–**	42.**610**.251	**2,690.–**
DCF77 radio controlled clock[1)]	230 V AC	52.**610**.161	**2,250.–**	52.**610**.251	**2,990.–**
Telegram slave clock, *DCFport24*, 12/24 V	230 V AC	83.**610**.161	**2,050.–**	83.**610**.251	**2,790.–**

Options	Suffix	Surcharge € each
Alternating temperature display, external temperature sensor (IP 54) included	**-66**	**249.–**
Built-in buzzer, automatically resounding at the end of count-down, cycle, and break respectively in stopwatch mode (duration adjustable from 0 to 4 seconds)	**-67**	**295.–**

Options – just as *you* like them ...
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

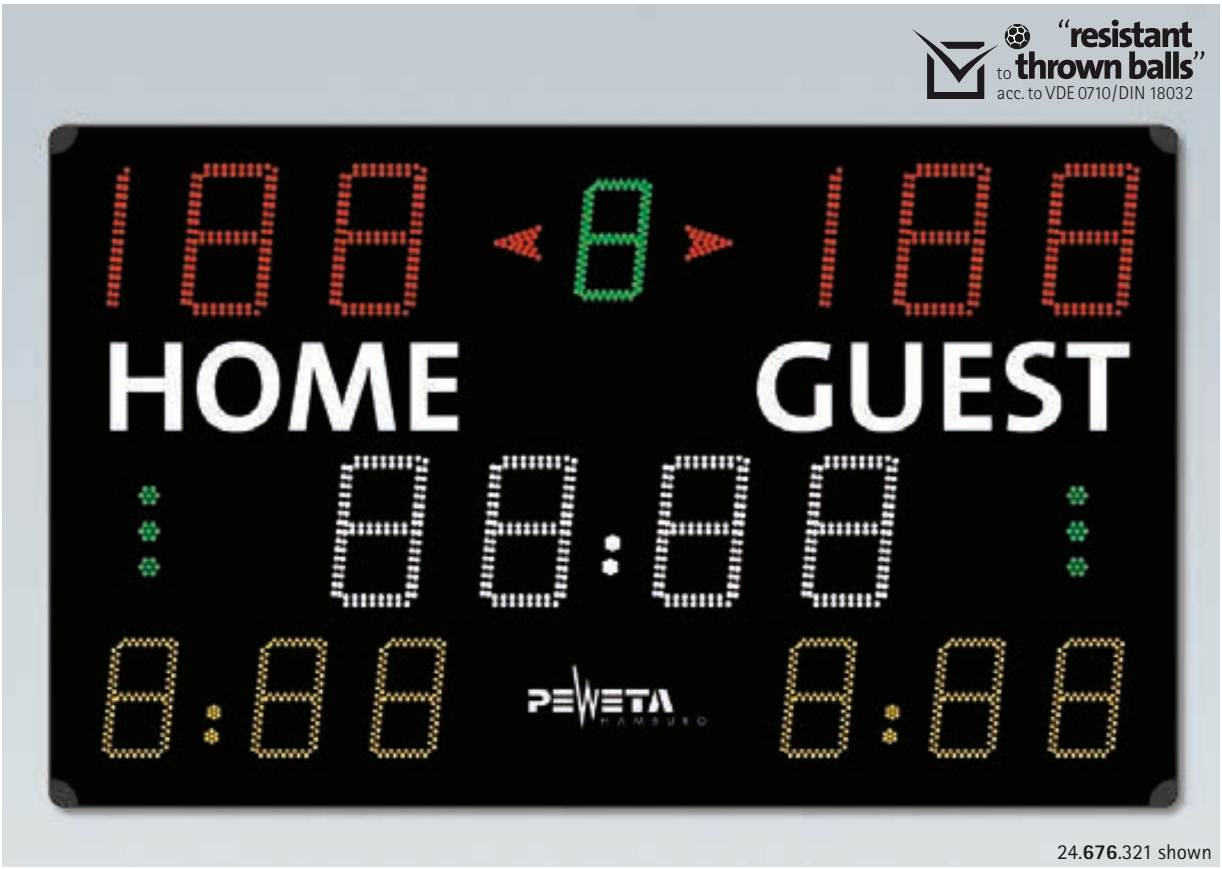
LED digital displays for outdoors
see pages 166 and 167.

[1)] A remotable DCF77 receiving aerial is included in delivery shipment.

LED Game Result Displays/Scoreboards, indoor
"Multisport", for most kinds of indoor sports

LED game result displays
single-sided
indoor

Type series
676



24.**676**.321 shown

During basketball games, the bottom line indicates the number of team fouls

Alternatively, as a selectable setting, a red square marker can be set to indicate the 5th team foul

Game result displays/scoreboards, in 7-Segment LED display technology, cipher heights 250 mm and 200 mm respectively, reading distance up to cir. 110 m. Outstandingly suited for most kinds of indoor sports, such as indoor soccer, handball, basketball, volleyball, hockey, badminton, and table tennis.

Sturdy metal case, enamelled black, for on-wall mounting, polycarbonate front glass treated for low reflectivity, resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3.

24.**676**.322 shown

Game result display board with LED text display for team names

Soccer scoreboards for outdoors
see pages
168 and 169.

Scoreboard 24.676.321:

- **Time display** (250 mm), 4-digit, white, showing minutes and seconds of game time, time elapsed or time-to-go
- **Real time clock** (250 mm), showing current time in hours and minutes when no game is going on (instead of game time), quartz-based, optionally DCF77 radio controlled (including receiving aerial) or connected to a PEWETA Master Clock by means of a *DCFport24* interface (accessories)
- **Score** (250 mm), 3 digits (0..199) per team, red, showing score/final result
- **Period** (200 mm), 1 digit, green, showing current period of game
- **Penalty time** (200 mm), 3 digits per team, amber, showing penalty time remaining
- **Team fouls** (200 mm), 1 digit per team, amber, showing total fouls per team during basketball games (instead of penalty time)
- **Red square marker**, 1 per team, can be set to indicate the 5th foul of a team during basketball games
- **Time-out,** 3 symbols per team (green dots), showing time-out periods taken
- **Service,** 1 symbol per team (red arrow), showing service or ball possession
- **Acoustic signal** (horn), built-in, indicates time-out, end of period or game over, may be triggered either automatically or manually (116 dB at 1 m)
- Permanent **HOME/GUEST** marking by self-adhesive film, available in various languages.

Scope of delivery

- **1 control panel,** multi-lingual, data transfer by radio, frequency 868..869 MHz (standard), or wire-based (set of wires is an accessory), with LCD display and keyboard. 13 kinds of sports stored. Additional, freely programmable mode or training mode
- **1 wall plug adapter** for charging the rechargeable batteries of the control panel
- **1 hand-held control unit** to send start, stop, and time-out commands and to trigger the horn, incl. 2 m wire for hook-up with the control panel (if required)
- **1 transport case** (cir. 355 x 255 x 86 mm) to safely store control panel, control unit, and plug adapter.

Scoreboard 24.676.322:

exactly as Scoreboard 24.**676**.321, however, additionally with

- **LED text display** (120 mm), amber, alphanumeric, to indicate the teams' names (instead of "HOME", "GUEST"), up to 9 characters per team, or to display information/advertisements with up to 20 characters in moving-script-method (up to 1,000 characters programmable). PC keyboard with connection wire to the control panel is included.

Further models
of this type series with 150 mm LED cipher height for small (single field) sports halls are available on request.

Technical data	
Data transmission	wireless 868..869 MHz (standard) or, additionally, wire-based (set of wires is an accessory)
Case dimensions (WHD)	cir. 1900 x 1150 x 90 mm
Front cover	polycarbonate treated for low reflectivity
Character heights	250 mm and 200 mm, respectively
Reading distance	cir. 110 m, view angle cir. 160°
Weight	cir. 35 kg
Operating voltage	mains 220..230 V AC/50..60 Hz

Type	Item No.	€ each
Scoreboard with HOME/GUEST marking by self-adhesive film	24.**676**.321	**5,090.–**
Scoreboard with LED text display	24.**676**.322	**6,590.–**

Accessories	Item No.	€ each
DCF77 receiving aerial (IP65) for precise local time and fully automatic change-over of summer/winter time	03.**925**.185	**295.–**
Time display interface to import the *DCFport24* pulse telegram from a PEWETA type series 921 master clock	04.**676**.000	**95.–**
Set of wires for wire-based or wireless data transfer from control panel to scoreboard, 10 m of wire, plug, and socket included	04.**676**.001	**160.–**
Additional plug and socket A3 to control the panel from a further location (for wireless operation using set of wires 04.**676**.001)	04.**676**.101	**125.–**

Control panel and software
Modes for 13 different kinds of sports plus an additional, freely programmable mode and a training mode (cycles and breaks adjustable) are stored in the control panel. Various parameters, like the duration of a game, extra time, time out, etc., can be adjusted as required, e.g. for youth teams. Up to 10 individual configurations with individual names such as "handball juniors" can be saved. Software updates can be loaded by flash drive using the built-in USB interface, e.g. in case of rule changes.

LED game result displays
single-sided
indoor

Type series
676

Soccer scoreboards for outdoors
see pages 168 and 169.

LED Game Result Displays/Scoreboards, indoor
with penalty time display for **handball and hockey**

LED game result displays
single-sided
indoor

Type series
676

24.**676**.541 shown

Game result displays/scoreboards, in 7-Segment LED display technology, composed of a main scoreboard and a 3-line penalty time display. As a stand-alone-unit, the main scoreboard is suited for most kinds of indoor sports. For handball and hockey, the augmenting penalty time display can show up to 3 penalty times per team, along with a 2-digit player number.

Sturdy metal case, enamelled black, for on-wall mounting, polycarbonate front glass treated for low reflectivity, resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3.

24.**676**.542 shown

Game result display board with LED text display for team names

Soccer scoreboards for outdoors
see pages 168 and 169.

Scoreboard 24.676.541:

- **Time display** (250 mm), 4-digit, white, showing minutes and seconds of game time, time elapsed or time-to-go
- **Real time clock** (250 mm), showing current time in hours and minutes when no game is going on (instead of game time), quartz-based, optionally DCF77 radio controlled (including receiving aerial) or connected to a PEWETA Master Clock by means of a *DCFport24* interface (accessories)
- **Score** (250 mm), 3 digits (0..199) per team, red, showing score/final result
- **Period** (200 mm), 1 digit, green, showing current period of game
- **Team fouls** (200 mm), 1 digit per team, amber, showing total fouls per team during basketball games (instead of penalty time)
- **Red square marker**, 1 per team, can be set to indicate the 5th foul of a team during basketball games
- **Time-out,** 3 symbols per team (green dots), showing time-out periods taken
- **Service,** 1 symbol per team (red arrow), showing service or ball possession
- **Penalty time** (160 mm), 3 lines with 3 penalty times per team, each composed of 2-digit player number (white) and 3-digit penalty time (red), showing penalty time counting down
- **Acoustic signal** (horn), built-in, indicates time-out, end of period or game over, may be triggered either automatically or manually (116 dB at 1 m)
- Permanent **HOME/GUEST** marking by self-adhesive film, available in various languages.

Scope of delivery

- **1 control panel,** multi-lingual, data transfer by radio, frequency 868..869 MHz (standard), or wire-based (set of wires is an accessory), with LCD display and keyboard. 13 kinds of sports stored. Additional freely programmable mode or training mode
- **1 wall plug adapter** for charging the rechargeable batteries of the control panel
- **1 hand-held control unit** to send start, stop, and time-out commands and to trigger the horn, incl. 2 m wire for hook-up with the control panel (if required)
- **1 transport case** (cir. 355 x 255 x 86 mm) to safely store control panel, control unit, and plug adapter.

Scoreboard 24.676.542:

exactly as Scoreboard 24.**676**.541, however, additionally with

- **LED text display** (120 mm), amber, alphanumeric, to indicate the teams' names (instead of "HOME", "GUEST"), up to 9 characters per team, or to display information/advertisements with up to 20 characters in moving-script-method (up to 1,000 characters programmable). PC keyboard with connection wire to the control panel is included.

Further models
with 2-line penalty time display, either below or lateral to the main scoreboard, are available on request.

Technical data	
Data transmission	wireless 868..869 MHz (standard) or, additionally, wire-based (set of wires is an accessory)
Case dimensions (WHD)	cir. 1900 x 2000 x 90 mm
Front cover	polycarbonate treated for low reflectivity
Character heights	250 mm, 200 mm, and 160 mm, respectively
Reading distance	cir. 110 m, view angle cir. 160°
Weight	cir. 50 kg
Operating voltage	mains 220..230 V AC/50..60 Hz

Type	Item No.	€ each
Scoreboard with HOME/GUEST marking by self-adhesive film	24.**676**.541	**8,090.–**
Scoreboard with LED text display	24.**676**.542	**9,590.–**

Accessories	Item No.	€ each
DCF77 receiving aerial (IP65) for precise local time and fully automatic change-over of summer/winter time	03.**925**.185	**295.–**
Time display interface to import the *DCFport24* pulse telegram from a PEWETA type series 921 master clock	04.**676**.000	**95.–**
Set of wires for wire-based or wireless data transfer from control panel to scoreboard, 10 m of wire, plug, and socket included	04.**676**.001	**160.–**
Additional plug and socket A3 to control the panel from a further location (for wireless operation using set of wires 04.**676**.001)	04.**676**.101	**125.–**

Control panel and software
Modes for 13 different kinds of sports plus an additional, freely programmable mode and a training mode (cycles and breaks adjustable) are stored in the control panel. Various parameters, like the duration of a game, extra time, time out, etc., can be adjusted as required, e.g. for youth teams. Up to 10 individual configurations with individual names such as "handball juniors" can be saved. Software updates can be loaded by flash drive using the built-in USB interface, e.g. in case of rule changes.

LED game result displays
single-sided
indoor

Type series
676

Soccer scoreboards for outdoors
see pages 168 and 169.

LED Game Result Displays/Scoreboards, indoor
with foul displays for **basketball**

LED game result displays
single-sided
indoor

Type series
676

24.**676**.551 shown

Game result displays/scoreboards, in 7-Segment LED display technology, composed of a main scoreboard and two 12-line foul displays. As a stand-alone-unit, the main scoreboard is suited for most kinds of indoor sports. For basketball, the two augmenting displays show player numbers and the number of their personal fouls.

Sturdy metal case, enamelled black, for on-wall mounting, polycarbonate front glass treated for low reflectivity, resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3.

24.**676**.552 shown

Game result display board with LED text display for team names

Combined game result display board with penalty time displays for handball or hockey and foul displays for basketball.
Item Numbers and prices on request

Soccer scoreboards for outdoors
see pages 168 and 169.

Scoreboard 24.676.551:

- **Time display** (250 mm), 4-digit, white, showing minutes and seconds of game time, time elapsed or time-to-go.
- **Real time clock** (250 mm), showing current time in hours and minutes when no game is going on (instead of game time), quartz-based, optionally DCF77 radio controlled (including receiving aerial) or connected to a PEWETA Master Clock by means of a *DCFport24* interface (accessories)
- **Score** (250 mm), 3 digits (0..199) per team, red, showing score/final result
- **Period** (200 mm), 1 digit, green, showing current period of game
- **Penalty time** (200 mm), 3 digits per team, amber, showing penalty time counting down
- **Team fouls** (200 mm), 1 digit per team, amber, showing total fouls per team during basketball games (instead of penalty time)
- **Red square marker**, 1 per team, can be set to indicate the 5th foul of a team during basketball games
- **Time-out,** 3 symbols per team (green dots), showing time-out periods taken
- **Service,** 1 symbol per team (red arrow), showing service or ball possession
- **Personal fouls** (90 mm), 12 lines per team, each line showing a 2-digit player number (white) as well as 4 amber dots (number of fouls) and 1 red dot (5th foul)
- **Acoustic signal** (horn), built-in, indicates time-out, end of period or game over, may be triggered either automatically or manually (116 dB at 1 m)
- Permanent **HOME/GUEST** marking by self-adhesive film, available in various languages.
- **Advertising panel**, cir. 1900 x 850 x 90 mm, for application of sponsors' or advertisers' logos.

Scope of delivery

- **2 control panels,** multi-lingual, data transfer by radio, frequency 868..869 MHz (standard), or wire-based (set of wires is an accessory), with LCD display and keyboard. 13 kinds of sports stored. Additional freely programmable mode or training mode
- **1 wall plug adapter** for charging the rechargeable batteries of the control panel
- **1 hand-held control unit** to send start, stop, and time-out commands and to trigger the horn, incl. 2 m wire for hook-up with the control panel (if required)
- **2 transport cases** (cir. 355 x 255 x 86 mm) to safely store control panels, control unit, and plug adapter.

Scoreboard 24.676.552:

exactly as Scoreboard 24.**676**.551, however, additionally with

- **LED text display** (120 mm), amber, alphanumeric, to indicate the teams' names (instead of "HOME", "GUEST"), up to 9 characters per team, or to display information/advertisements with up to 20 characters in moving-script-method (up to 1,000 characters programmable). PC keyboard with connection wire to the control panel is included.

Further models
with an additional penalty time display below the main scoreboard and/or with different cipher heights are available on request.

Technical data	
Data transmission	wireless 868..869 MHz (standard) or, additionally, wire-based (set of wires is an accessory)
Case dimensions (WHD)	cir. 3200 x 2000 x 90 mm
Front cover	polycarbonate treated for low reflectivity
Character heights	250 mm, 200 mm, and 90 mm, respectively
Reading distance	cir. 110 m, view angle cir. 160°
Weight	cir. 120 kg
Operating voltage	mains 220..230 V AC/50..60 Hz

Type	Item No.	€ each
Scoreboard with HOME/GUEST marking by self-adhesive film	24.**676**.551	**11,990.–**
Scoreboard with LED text display	24.**676**.552	**13,490.–**

Accessories	Item No.	€ each
DCF77 receiving aerial (IP65) for precise local time and fully automatic change-over of summer/winter time	03.**925**.185	**295.–**
Time display interface to import the *DCFport24* pulse telegram from a PEWETA type series 921 master clock	04.**676**.000	**95.–**
Set of wires for wire-based or wireless data transfer from control panel to scoreboard, 10 m of wire, plug, and socket included	04.**676**.001	**160.–**
Additional plug and socket A3 to control the panel from a further location (for wireless operation using set of wires 04.**676**.001)	04.**676**.101	**125.–**

Control panel and software
Modes for 13 different kinds of sports plus an additional, freely programmable mode and a training mode (cycles and breaks adjustable) are stored in the control panel. Various parameters, like the duration of a game, extra time, time out, etc., can be adjusted as required, e. g. for youth teams. Up to 10 individual configurations with individual names such as "handball juniors" can be saved. Software updates can be loaded by flash drive using the built-in USB interface, e. g. in case of rule changes.

LED game result displays
single-sided
indoor

Type series
676

Soccer scoreboards for outdoors
see pages 168 and 169.

LED 14-/24-Second Display Boards, indoor
for **basketball**, with or without time display

LED game result displays
single-sided
indoor

Type series
676

Augmenting display boards, resistant to thrown balls, for displaying attack time during a basketball game (24-seconds-rule). Shipment in pairs. Operation in connection with an LED scoreboard of type series 676 only!

Sturdy black plastic case for on-wall mounting or for mounting on substructure supplied by client. Polycarbonate front glass treated for low reflectivity, resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3.

Type 24.676.613:
- **Attack time (230 mm)**, 2-digit, red, showing the duration of current attack (adjustable to 14 or 24 seconds), counting down. Tenths of seconds shown during final 5 seconds
- **State of game**, 1 illuminated red dot, showing time-out
- **Acoustic signal** (horn), built-in, automatically resounds after end of attack time (116 dB at 1 m).

Type 24.676.622:
- **Time display (160 mm)**, 4-digit, amber, showing game time elapsed (taken over from main scoreboard)
- **Attack time (250 mm)**, 2-digit, red, showing the duration of current attack (adjustable to 14 or 24 seconds), counting down. Tenths of seconds shown during final 5 seconds
- **State of game**, 1 illuminated red dot, showing time-out
- **Acoustic signal** (horn), built-in, automatically resounds after end of attack time (116 dB at 1 m).

Scope of delivery
- **2 displays** acc. to description
- **1 hand-held control unit** to be connected to the control unit of the main scoreboard, including 2 m of wire. Separate keys to adjust to 14 or 24 seconds (new FIBA rule of October 2014)
- **1 transport case** (cir. 265 x 225 x 50 mm) to safely store control unit and wire.

24.**676**.622 shown

Technical data	
Data transmission	via main display panel
Front cover	polycarbonate treated for low reflectivity
Reading distance	cir. 80 m
Weight per unit	cir. 2,5 kg (24.676.**613**), cir. 6 kg (24.676.**622**)
Operating voltage	mains 220..230 V AC/50..60 Hz

Type	Cipher heights	Dimensions WHD per display	Item No.	€ each
1 line, **without** (game) time display	230 mm	500 x 300 x 65 mm	24.**676**.613	**1,995.–**
2 lines, **with** (game) time display	160/250 mm	870 x 570 x 90 mm	24.**676**.622	**4,995.–**

24.**676**.613 shown

Further models
of these 14-/24-second display boards for stand-alone operation (without connection to a main LED scoreboard of type series 676) available on request.

Soccer scoreboards for outdoors
see pages 168 and 169.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Outdoor
analog and
digital
single, double
and four faces

Outdoor Clocks

analog and digital
single, double and four faces

Time displayed outdoors, in a modern analog clock or displayed digitally alternating with date and temperature, ideally combined with your company´s logo, has always been and still is a public service information in high demand. Take advantage of this demand by using PEWETA outdoor clocks and display systems! Water protected and resistant against weather and other environmental influences.

Outdoor Clocks

single face, round, **not backlighted**

Outdoor
analog
single face

Type series
730

71.**730**.421 shown

Extraordinarily sturdy **high quality industrial grade** outdoor clocks. Solid workmanship, not backlighted, weather protected case (IP 54/EN 60 529).

Also available "resistant to thrown balls" according to DIN 18 032, part 3.

71.**730**.411

Indoor clocks resistant to thrown balls
see pages 64 ... 67.

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic dark gun metal (DB 703) or, as an option, enamelled in metallic silver grey (RAL 9006) or custom enamelled, as listed below.
Extraordinarily solid construction, absolutely corrosion resistant and weatherproof.
Protection grade IP 54 (EN 60 529).

Mounting
Wall mounting.

Resistance to thrown balls acc. to DIN 18 032, part 3 (option)
Clocks of this type series are also available resistant to thrown balls and thus suitable for school yards and sporting facilities. Very sturdy case with three-point mounting as a safeguard, proof against wrenching of the hook. Front glass is a 2-layer laminated safety glass, 6 mm thick. The clocks are certified and labelled "resistant to thrown balls according to DIN 18 032, part 3".

Front glass
Flat shock-resistant Plexiglas® XT (PMMA) as standard.

Face
High distinction white metal, choice of large black Arabic numerals or large black DIN bar markings. Very distinctive and easy doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm resp. 620 mm. Faces printed according to DIN 41 091.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute.
Red second hand on synchronous clocks (**21**.xxx), on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Outdoor
analog
single face

Type series **730**

Arabic numerals ▼ Clock type — Face diameter ▶	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
Synchronous clock, mains operated 230 VAC/50 Hz	21.730.411	645.–	21.730.511	785.–	21.730.611	935.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V [1) 2)]	51.730.411	940.–	51.730.511	1,079.–	51.730.611	1,290.–
DCF77 radio controlled clock, mains operated 230 VAC [2)]	52.730.411	980.–	52.730.511	1,119.–	52.730.611	1,330.–
Slave clock, minute pulse 12...60 V	71.730.411	609.–	71.730.511	749.–	71.730.611	899.–
Slave clock, minute/second pulse 12/24 V	72.730.411	834.–	72.730.511	974.–	72.730.611	1,124.–
Slave clock, min. pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.730.411	1,019.–	74.730.511	1,159.–	74.730.611	1,309.–
Telegram slave clock, *DCFport24*, 24 V	81.730.411	699.–	81.730.511	839.–	81.730.611	989.–
RC telegram slave clock, *AirPort24*, battery op. 1.5 V [1)]	84.730.411	824.–	84.730.511	964.–	84.730.611	1,114.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.730.411	864.–	85.730.511	1,004.–	85.730.611	1,154.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3)]	91.730.411	929.–	91.730.511	1,069.–	91.730.611	1,219.–

DIN bar markings ▼ Clock type — Face diameter ▶	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
Synchronous clock, mains operated 230 VAC/50 Hz	21.730.421	645.–	21.730.521	785.–	21.730.621	935.–
DCF77 radio controlled clock, battery operated 2 x 1.5 V [1) 2)]	51.730.421	940.–	51.730.521	1,079.–	51.730.621	1,290.–
DCF77 radio controlled clock, mains operated 230 VAC [2)]	52.730.421	980.–	52.730.521	1,119.–	52.730.621	1,330.–
Slave clock, minute pulse 12...60 V	71.730.421	609.–	71.730.521	749.–	71.730.621	899.–
Slave clock, minute/second pulse 12/24 V	72.730.421	834.–	72.730.521	974.–	72.730.621	1,124.–
Slave clock, min. pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.730.421	1,019.–	74.730.521	1,159.–	74.730.621	1,309.–
Telegram slave clock, *DCFport24*, 24 V	81.730.421	699.–	81.730.521	839.–	81.730.621	989.–
RC telegram slave clock, *AirPort24*, battery op. 2 x 1.5 V [1)]	84.730.421	824.–	84.730.521	964.–	84.730.621	1,114.–
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.730.421	864.–	85.730.521	1,004.–	85.730.621	1,154.–
NTP system clock (NTP client), synchronisation by LAN, PoE [3)]	91.730.421	929.–	91.730.521	1,069.–	91.730.621	1,219.–

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	-05	none	-05	none	-05	none
Case custom enamelled	-10	on request	-10	on request	-10	on request
Resistance to thrown balls acc. to DIN 18032, part 3	-59	179.–	-59	179.–	-59	179.–

Case colour	Suffix
metallic silver grey RAL 9006	-05
custom enamelled	-10

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1)] Alkaline batteries are included in delivery shipment (medium lifespan: cir. 4 years).
[2)] A remotable DCF77 receiving aerial is included in delivery shipment.
[3)] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Indoor clocks resistant to thrown balls
see pages 64 ... 67.

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Outdoor Clocks

double face, round, **not backlighted**

Outdoor
analog
double face

Type series
732

71.**732**.522 shown

Extraordinarily sturdy **high quality industrial grade** outdoor clocks. Solid workmanship, not backlighted, weather protected case (IP 54/EN 60 529).

71.**732**.512

Case
- cir. 446 mm diameter
- cir. 546 mm diameter
- cir. 646 mm diameter

very sturdy metal case, enamelled metallic dark gun metal (DB 703) or, as an option, enamelled in metallic silver grey (RAL 9006) or custom enamelled, as listed below.
Extraordinarily solid construction, absolutely corrosion resistant and weatherproof.
Protection grade IP 54 (EN 60 529).

Mounting
Choice of double bracket wall or ceiling mounting, standard bracket length cir. 210 mm.

Front glasses
Flat shock-resistant Plexiglas® XT (PMMA).

Faces
High distinction white metal, choice of large black Arabic numerals or large black DIN bar markings. Very distinctive and easy doubt-free reading even over longer distances. Visible face diameter 420 mm, 520 mm resp. 620 mm. Faces printed according to DIN 41 049.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute.
Red second hands on minute/second pulse clocks (**72**.xxx) and on clocks with synchronous second hands (**74**.xxx) only.

Double face clocks
Double face clocks come completely wired and pre-assembled.
Just mount them and plug in – **that's it!**

Outdoor
analog
double face

Type series
732

Arabic numerals ▼ Clock type	Face diameter ▶ Mounting ▼	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**732**.412	**1,784.–**	52.**732**.512	**1,955.–**	52.**732**.612	**2,179.–**
	ceiling	52.**732**.413	**1,784.–**	52.**732**.513	**1,955.–**	52.**732**.613	**2,179.–**
Slave clock, minute pulse 12...60 V	wall	71.**732**.412	**1,395.–**	71.**732**.512	**1,565.–**	71.**732**.612	**1,785.–**
	ceiling	71.**732**.413	**1,395.–**	71.**732**.513	**1,565.–**	71.**732**.613	**1,785.–**
Slave clock, minute/second pulse 12/24 V	wall	72.**732**.412	**1,845.–**	72.**732**.512	**2,015.–**	72.**732**.612	**2,235.–**
	ceiling	72.**732**.413	**1,845.–**	72.**732**.513	**2,015.–**	72.**732**.613	**2,235.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.**732**.412	**2,215.–**	74.**732**.512	**2,385.–**	74.**732**.612	**2,605.–**
	ceiling	74.**732**.413	**2,215.–**	74.**732**.513	**2,385.–**	74.**732**.613	**2,605.–**
Telegram slave clock, *DCFport24*, 24 V	wall	81.**732**.412	**1,509.–**	81.**732**.512	**1,679.–**	81.**732**.612	**1,900.–**
	ceiling	81.**732**.413	**1,509.–**	81.**732**.513	**1,679.–**	81.**732**.613	**1,900.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**732**.412	**1,699.–**	85.**732**.512	**1,869.–**	85.**732**.612	**2,090.–**
	ceiling	85.**732**.413	**1,699.–**	85.**732**.513	**1,869.–**	85.**732**.613	**2,090.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	wall	91.**732**.412	**1,739.–**	91.**732**.512	**1,909.–**	91.**732**.612	**2,130.–**
	ceiling	91.**732**.413	**1,739.–**	91.**732**.513	**1,909.–**	91.**732**.613	**2,130.–**

DIN bar markings ▼ Clock type	Face diameter ▶ Mounting ▼	420 mm Item No.	€ each	520 mm Item No.	€ each	620 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**732**.422	**1,784.–**	52.**732**.522	**1,955.–**	52.**732**.622	**2,179.–**
	ceiling	52.**732**.423	**1,784.–**	52.**732**.523	**1,955.–**	52.**732**.623	**2,179.–**
Slave clock, minute pulse 12...60 V	wall	71.**732**.422	**1,395.–**	71.**732**.522	**1,565.–**	71.**732**.622	**1,785.–**
	ceiling	71.**732**.423	**1,395.–**	71.**732**.523	**1,565.–**	71.**732**.623	**1,785.–**
Slave clock, minute/second pulse 12/24 V	wall	72.**732**.422	**1,845.–**	72.**732**.522	**2,015.–**	72.**732**.622	**2,235.–**
	ceiling	72.**732**.423	**1,845.–**	72.**732**.523	**2,015.–**	72.**732**.623	**2,235.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.**732**.422	**2,215.–**	74.**732**.522	**2,385.–**	74.**732**.622	**2,605.–**
	ceiling	74.**732**.423	**2,215.–**	74.**732**.523	**2,385.–**	74.**732**.623	**2,605.–**
Telegram slave clock, *DCFport24*, 24 V	wall	81.**732**.422	**1,509.–**	81.**732**.522	**1,679.–**	81.**732**.622	**1,900.–**
	ceiling	81.**732**.423	**1,509.–**	81.**732**.523	**1,679.–**	81.**732**.623	**1,900.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**732**.422	**1,699.–**	85.**732**.522	**1,869.–**	85.**732**.622	**2,090.–**
	ceiling	85.**732**.423	**1,699.–**	85.**732**.523	**1,869.–**	85.**732**.623	**2,090.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [2]	wall	91.**732**.422	**1,739.–**	91.**732**.522	**1,909.–**	91.**732**.622	**2,130.–**
	ceiling	91.**732**.423	**1,739.–**	91.**732**.523	**1,909.–**	91.**732**.623	**2,130.–**

Options	420 mm Suffix	Surcharge € each	520 mm Suffix	Surcharge € each	620 mm Suffix	Surcharge € each
Case enamelled in metallic silver grey RAL 9006	**-05**	**none**	**-05**	**none**	**-05**	**none**
Case custom enamelled	**-10**	**on request**	**-10**	**on request**	**-10**	**on request**

Case colour	Suffix
metallic silver grey RAL 9006	**-05**
custom enamelled	**-10**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Outdoor Clocks (also suitable for large halls)
single face, round, **backlighted by LED**

Outdoor
analog
single face

Type series
750

74.**750**.621 shown

Extraordinarily sturdy **high quality industrial grade** outdoor clocks, also suitable for indoors. Solid workmanship, **backlighted by LED**, weather protected case (IP 54/EN 60 529).

71.**750**.621 **–48**

Clocks of this type series with Arabic numerals bear the Item Number suffix **–48**.

Case
- cir. 670 mm diameter
- cir. 902 mm diameter

weatherproof aluminium case. Outside 2-layer tempered enamel, light grey (RAL 7035). Optionally custom enamelled, at a surcharge. Extraordinarily solid construction, incl. light fitting. Absolutely corrosion resistant and weatherproof. Protection grade IP 54 (EN 60 529).

Mounting
On-wall mounting as standard. At a surcharge, a wall or ceiling mounting bracket or a pole adapter are available as options.

Front glass
Shock-resistant, highly transparent 4 mm Plexiglas® XT. For locations prone to impact or public areas, unbreakable Makrolon® (polycarbonate) front glass is available as an option.

Face (backlighted)
Acrylic plastic, white, translucent, 5 mm thick, large black DIN bar markings (or black Arabic numerals as an option). Very distinctive and easy doubt-free reading even over longer distances.
Face printed according to DIN 41 049.

Illumination
Backlighting by durable, maintenance-free light-emitting diodes (LEDs), operating voltage 230 VAC/50…60 Hz. As an option, a light-sensitive switch can be included.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute. Distinctive red "Railway Station clock" type second hand with "eye" on slave clock with synchronous second hand (**74**.xxx) only.
No second hand on other clock types.

Outdoor
analog
single face

Type series
750

Clock type	Face diameter ▶ 600 mm Item No.	€ each	800 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	52.**750**.621	**2,110.–**	52.**750**.821	**2,750.–**
Slave clock, minute pulse 12…60 V	71.**750**.621	**1,620.–**	71.**750**.821	**2,260.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	74.**750**.621	**2,250.–**	74.**750**.821	**2,890.–**
Telegram slave clock, *DCFport24*, 24 V [2]	81.**750**.621	**1,980.–**	81.**750**.821 [2]	**2,620.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.**750**.621	**2,210.–**	85.**750**.821	**2,850.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	91.**750**.621	**2,390.–**	91.**750**.821	**3,030.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**on request**
Wall or ceiling mounting bracket for single face outdoor clocks, standard length 240 mm	**-34**	**290.–**
Pole adapter for lateral mounting by means of stainless steel tightening straps (not included)	**-35**	**415.–**
Pole adapter for central mounting (mounting bracket, length cir. 300 mm)	**-36**	**on request**
Light-sensitive switch for internal illumination	**-44**	**250.–**
Custom logo on clock face	**-47**	**on request**
Face with Arabic numerals instead of DIN bar markings	**-48**	**on request**
Unbreakable Makrolon® front glass instead of Plexiglas® (for 670 mm diameter clocks only)	**-55**	**295.–**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] *DCFport24* pulse telegram slave clocks with 800 mm face diameter require a 230 VAC power supply.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Outdoor Clocks (also suitable for large halls)
double face, round, **backlighted by LED**

Outdoor
analog
double face

Type series
752

Extraordinarily sturdy **high quality industrial grade** outdoor clocks, also suitable for indoors. Solid workmanship, **backlighted by LED**, weather protected case (IP 54/EN 60 529).

Clocks of this type series with Arabic numerals bear the Item Number suffix **–48**.

Case
- cir. 670 mm diameter
- cir. 902 mm diameter

weatherproof aluminium case. Outside 2-layer tempered enamel, light grey (RAL 7035). Optionally custom enamelled, at a surcharge. Extraordinarily solid construction, incl. light fitting. Absolutely corrosion resistant and weatherproof. Protection grade IP 54 (EN 60 529).

Mounting
Choice of wall or ceiling mounting, standard length cir. 240 mm. Optionally, at a surcharge, a ceiling suspension in extended length, cir. 480 mm, or a pole adapter are available.

Front glasses
Shock-resistant, highly transparent 4 mm Plexiglas® XT. For locations prone to impact or public areas, unbreakable Makrolon® (polycarbonate) front glasses are available as an option.

Faces (backlighted)
Acrylic plastic, white, translucent, 5 mm thick, large black DIN bar markings (or black Arabic numerals as an option). Very distinctive and easy doubt-free reading even over longer distances. Faces printed according to DIN 41 049.

Illumination
Backlighting by durable, maintenance-free light-emitting diodes (LEDs), operating voltage 230 VAC/50…60 Hz. As an option, a light-sensitive switch can be included.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute. Distinctive red "Railway Station clock" type second hands with "eye" on slave clock with synchronous second hands (**74**.xxx) only.

No second hands on other clock types.

Outdoor
analog
double face

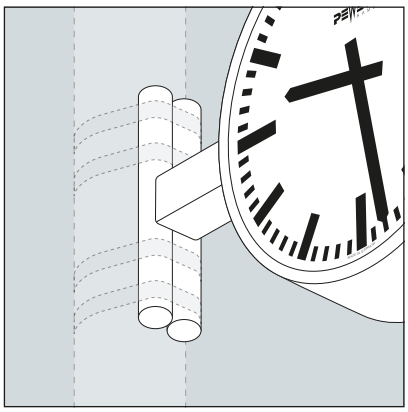
Type series
752

Clock type	Face diameter ▶ Mounting ▼	600 mm Item No.	600 mm € each	800 mm Item No.	800 mm € each
DCF77 radio controlled clock, mains operated 230 VAC [1]	wall	52.**752**.622	**2,540.–**	52.**752**.822	**3,610.–**
	ceiling	52.**752**.623	**2,540.–**	52.**752**.823	**3,610.–**
Slave clock, minute pulse 12…60 V	wall	71.**752**.622	**2,050.–**	71.**752**.822	**3,120.–**
	ceiling	71.**752**.623	**2,050.–**	71.**752**.823	**3,120.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 VAC/50 Hz	wall	74.**752**.622	**3,050.–**	74.**752**.822	**4,120.–**
	ceiling	74.**752**.623	**3,050.–**	74.**752**.823	**4,120.–**
Telegram slave clock, *DCFport24*, 24 V [2]	wall	81.**752**.622	**2,410.–**	81.**752**.822 [2]	**3,480.–**
	ceiling	81.**752**.623	**2,410.–**	81.**752**.823 [2]	**3,480.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	wall	85.**752**.622	**2,640.–**	85.**752**.822	**3,710.–**
	ceiling	85.**752**.623	**2,640.–**	85.**752**.823	**3,710.–**
NTP system clock (NTP client), synchronisation by LAN, PoE [3]	wall	91.**752**.622	**2,820.–**	91.**752**.822	**3,890.–**
	ceiling	91.**752**.623	**2,820.–**	91.**752**.823	**3,890.–**

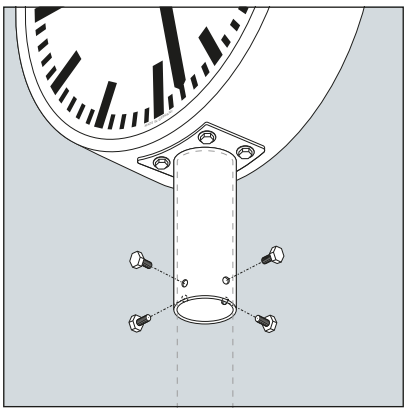
Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**on request**
Ceiling suspension extended length, cir. 480 mm	**-32**	**195.–**
Pole adapter for lateral mounting by means of stainless steel tightening straps (not included)	**-35**	**125.–**
Pole adapter for central mounting (mounting bracket, length cir. 300 mm)	**-36**	**on request**
Light-sensitive switch for internal illumination	**-44**	**250.–**
Custom logo on clock face	**-47**	**on request**
Face with Arabic numerals instead of DIN bar markings	**-48**	**on request**
Unbreakable Makrolon® front glasses instead of Plexiglas® (for 670 mm diameter clocks only)	**-56**	**590.–**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] *DCFport24* pulse telegram slave clocks with 800 mm face diameter require a 230 VAC power supply.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.



Pole adapter for lateral mounting by means of stainless steel tightening straps, suffix **-35**



Pole adapter for central mounting, suffix **-36**

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Outdoor Clocks (also suitable for large halls)
single face, square, **backlighted by LED**

Outdoor
analog
single face

Type series
760

74.**760**.621 shown

Extraordinarily sturdy **high quality industrial grade** outdoor clocks, also suitable for indoors. Solid workmanship, **backlighted by LED**, weather protected case (IP 54/EN 60 529).

71.**760**.621 **–48**

Clocks of this type series with Arabic numerals bear the Item Number suffix **–48**.

Case
- cir. 442 x 442 mm
- cir. 642 x 642 mm
- cir. 842 x 842 mm

weatherproof aluminium case. Outside 2-layer tempered enamel, light grey (RAL 7035). Optionally custom enamelled, at a surcharge. Extraordinarily solid construction, incl. light fitting. Absolutely corrosion resistant and weatherproof. Protection grade IP 54 (EN 60 529).

Mounting
On-wall mounting as standard. At a surcharge, a wall or ceiling mounting bracket or a pole adapter are available as options

Front glass
Shock-resistant, highly transparent 4 mm Plexiglas® XT. For locations prone to impact or public areas, unbreakable Makrolon® (polycarbonate) front glass is available as an option.

Face (backlighted)
Acrylic plastic, white, translucent, 5 mm thick, large black DIN bar markings (or black Arabic numerals as an option). Very distinctive and easy doubt-free reading even over longer distances.
Face printed according to DIN 41 049.

Illumination
Backlighting by durable, maintenance-free light-emitting diodes (LEDs), operating voltage 230 VAC/50…60 Hz. As an option, a light-sensitive switch can be included.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute. Distinctive red "Railway Station clock" type second hand with "eye" on slave clock with synchronous second hand (**74**.xxx) only.

No second hand on other clock types.

Outdoor
analog
single face

Type series
760

Clock type	Face dimensions ▶ 400 x 400 mm Item No.	€ each	600 x 600 mm Item No.	€ each	800 x 800 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC[1]	52.**760**.421	**1,750.–**	52.**760**.621	**2,110.–**	52.**760**.821	**2,750.–**
Slave clock, minute pulse 12…60 V	71.**760**.421	**1,260.–**	71.**760**.621	**1,620.–**	71.**760**.821	**2,260.–**
Slave clock, min. pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.**760**.421	**1,890.–**	74.**760**.621	**2,250.–**	74.**760**.821	**2,890.–**
Telegram slave clock, *DCFport24*, 24 V[2]	81.**760**.421	**1,620.–**	81.**760**.621	**1,980.–**	81.**760**.821[2]	**2,620.–**
RC telegram slave clock, *AirPort24*, mains operated 230 VAC, with outage reserve	85.**760**.421	**1,850.–**	85.**760**.621	**2,210.–**	85.**760**.821	**2,850.–**
NTP system clock (NTP client), synchronisation by LAN, PoE[3]	91.**760**.421	**2,030.–**	91.**760**.621	**2,390.–**	91.**760**.821	**3,030.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**on request**
Wall or ceiling mounting bracket for single face outdoor clocks, standard length 70 mm	**-34**	**on request**
Light-sensitive switch for internal illumination	**-44**	**250.–**
Custom logo on clock face	**-47**	**on request**
Face with Arabic numerals instead of DIN bar markings	**-48**	**on request**
Unbreakable Makrolon® front glass instead of Plexiglas® (for 842 x 842 mm clocks only)	**-55**	**395.–**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] *DCFport24* pulse telegram slave clocks with 800 x 800 mm face dimensions require a 230 VAC power supply.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Outdoor Clocks (also suitable for large halls)
double face, square, **backlighted by LED**

Outdoor
analog
double face

Type series
762

74.**762**.622 shown

Extraordinarily sturdy **high quality industrial grade** outdoor clocks, also suitable for indoors. Solid workmanship, **backlighted by LED**, weather protected case (IP 54/EN 60 529).

71.**762**.622 **–48**

Clocks of this type series with Arabic numerals bear the Item Number suffix **–48**.

Case
- cir. 442 x 442 mm
- cir. 642 x 642 mm
- cir. 842 x 842 mm

weatherproof aluminium case. Outside 2-layer tempered enamel, light grey (RAL 7035). Optionally custom enamelled, at a surcharge. Extraordinarily solid construction, incl. light fitting. Absolutely corrosion resistant and weatherproof. Protection grade IP 54 (EN 60 529).

Mounting
Choice of wall or ceiling mounting, standard length cir. 70 mm.

Front glasses
Shock-resistant, highly transparent 4 mm Plexiglas® XT. For locations prone to impact or public areas, unbreakable Makrolon® (polycarbonate) front glasses are available as an option.

Faces (backlighted)
Acrylic plastic, white, translucent, 5 mm thick, large black DIN bar markings (or black Arabic numerals as an option). Very distinctive and easy doubt-free reading even over longer distances. Faces printed according to DIN 41 049.

Illumination
Backlighting by durable, maintenance-free light-emitting diodes (LEDs), operating voltage 230 V AC/50…60 Hz. As an option, a light-sensitive switch can be included.

Hands
Pointed black DIN bar-type hands (DIN 41 092) for hour and minute. Distinctive red "Railway Station clock" type second hands with "eye" on slave clock with synchronous second hands (**74**.xxx) only.

No second hands on other clock types.

Outdoor
analog
double face

Type series
762

Clock type	Face dimensions ▶ / Mounting ▼	400 x 400 mm Item No.	€ each	600 x 600 mm Item No.	€ each	800 x 800 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 V AC[1]	wall	52.**762**.422	**2,240.–**	52.**762**.622	**2,540.–**	52.**762**.822	**3,610.–**
	ceiling	52.**762**.423	**2,240.–**	52.**762**.623	**2,540.–**	52.**762**.823	**3,610.–**
Slave clock, minute pulse 12…60 V	wall	71.**762**.422	**1,750.–**	71.**762**.622	**2,050.–**	71.**762**.822	**3,120.–**
	ceiling	71.**762**.423	**1,750.–**	71.**762**.623	**2,050.–**	71.**762**.823	**3,120.–**
Slave clock, minute pulse 12/24 V, synchronous second hand 230 V AC/50 Hz	wall	74.**762**.422	**2,750.–**	74.**762**.622	**3,050.–**	74.**762**.822	**4,120.–**
	ceiling	74.**762**.423	**2,750.–**	74.**762**.623	**3,050.–**	74.**762**.823	**4,120.–**
Telegram slave clock, *DCFport24*, 24 V[2]	wall	81.**762**.422	**2,110.–**	81.**762**.622	**2,410.–**	81.**762**.822[2]	**3,480.–**
	ceiling	81.**762**.423	**2,110.–**	81.**762**.623	**2,410.–**	81.**762**.823[2]	**3,480.–**
RC telegram slave clock, *AirPort24*, mains operated 230 V AC, with outage reserve	wall	85.**762**.422	**2,340.–**	85.**762**.622	**2,640.–**	85.**762**.822	**3,710.–**
	ceiling	85.**762**.423	**2,340.–**	85.**762**.623	**2,640.–**	85.**762**.823	**3,710.–**
NTP system clock (NTP client), synchronisation by LAN, PoE[3]	wall	91.**762**.422	**2,520.–**	91.**762**.622	**2,820.–**	91.**762**.822	**3,890.–**
	ceiling	91.**762**.423	**2,520.–**	91.**762**.623	**2,820.–**	91.**762**.823	**3,890.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**on request**
Light-sensitive switch for internal illumination	**-44**	**250.–**
Custom logo on clock face	**-47**	**on request**
Face with Arabic numerals instead of DIN bar markings	**-48**	**on request**
Unbreakable Makrolon® front glasses instead of Plexiglas® (for 842 x 842 mm clocks only)	**-56**	**790.–**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] *DCFport24* pulse telegram slave clocks with 800 x 800 mm face dimensions require a 230 V AC power supply.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

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Training Clocks/Pace Clocks, for in- and outdoors, with seconds cross, **backlighted by LED**

Indoor/ Outdoor
analog
single face

Type series
765

42.**765**.611 shown

This kind of training/pace clocks indicates split times during swim training/warm-up training. Times are taken by each swimmer individually. The 4-coloured seconds cross indicates the time elapsed, one complete turn corresponds to exactly 60 seconds.

For parallel operation of 2 training clocks, the slave clock type connected to the central control unit 10.**430**.100 is recommended. Thus an identical display (synchronous time) is always guaranteed on all training clocks connected.

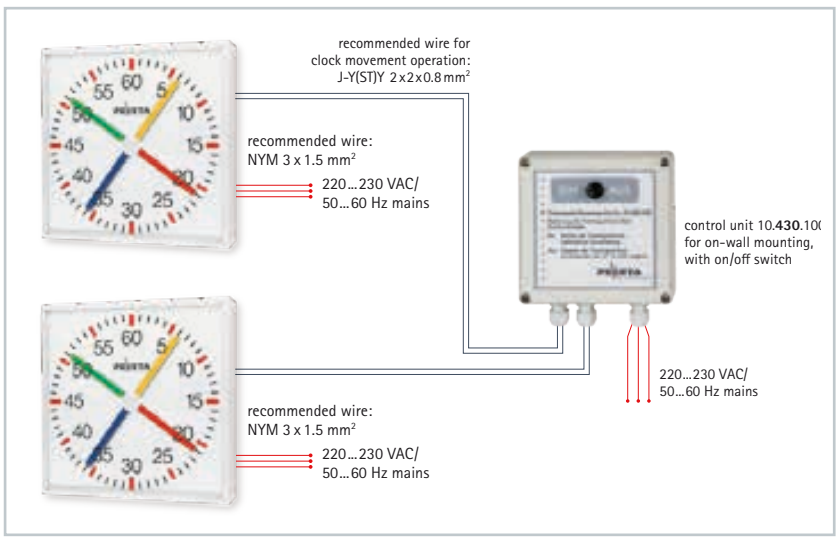


Diagram shows 2 training clocks 71.**765**.611 with control unit 10.**430**.100

Training clocks resistent to thrown balls
for indoors see pages 92 and 93.

Case
- cir. 642 x 642 mm

weatherproof aluminium case. Outside 2-layer tempered enamel, light grey (RAL 7035). Optionally custom enamelled, at a surcharge. Extraordinarily solid construction, incl. light fitting. Absolutely corrosion resistant and weatherproof. Protection grade IP 54 (EN 60 529).

Mounting
On-wall mounting as standard. Wall or ceiling mounting bracket available at a surcharge (option).

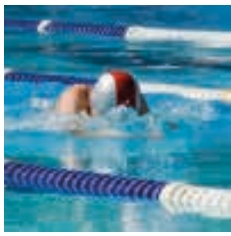
Clock types
- Quartz movement, mains operated 230 V AC, fixed power supply.
- Slave movement, pulse operated 24 V To be operated by control unit 10.**430**.100 only. **Recommended for synchronized, parallel operation of 2 training clocks/ pace clocks** 71.**765**.611 **in securely fixed position**.

Face (backlighted)
Acrylic plastic, white, translucent, 5 mm thick, with red/black second bars and black numerals. Very distinctive and easy doubt-free reading even over longer distances. Minimum reading distance 30 m.

Illumination
Backlighting by durable, maintenance-free light-emitting diodes (LEDs), operating voltage 230 V AC/50…60 Hz. As an option, a light-sensitive switch can be included.

Hands
Acrylic plastic 4-coloured cross, translucent, intervals in second cycles.

Front glass
Shock-resistant, highly transparent 4 mm Plexiglas® XT.



Indoor/ Outdoor
analog
single face

Type series
765

Technical data	
Operating power (quartz clock type, mains operated)	220…230 V AC
Operating power (slave clock type, pulse operated)	24 V second pulses
Operating power (illumination)	230 V AC/50–60 Hz
Intervals	second cycles
Dial sections	0…60
Reading distance	min. 30 m

Clock type	Item No.	€ each
Quartz clock, mains operated 230 V AC	42.**765**.611	**2,250.–**
Slave clock, minute pulse 24 V (second cycles)	71.**765**.611	**2,050.–**

Accessory	Item No.	€ each
Control unit for 2 training clocks 71.**765**.611, operating power 220…230 V AC/50…60 Hz, ON/OFF switch	10.**430**.100	**349.–**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**on request**
Wall or ceiling mounting bracket for single face outdoor clocks, standard length 70 mm	**-34**	**on request**
Light-sensitive switch for internal illumination	**-44**	**250.–**
Custom logo on clock face	**-47**	**on request**

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Function
The (swim) training/pace clock can be used by any number of swimmers simultaneously.

The crossed second hands show the time elapsed in seconds.

The swimmer will wait for a maximum of 14 seconds until the next colour of the four second hands ("his" colour) reaches the 12-o'clock-position and will then memorise the colour of "his" hand.

Upon reaching the edge of the pool (after 1 or 2 laps) the time elapsed can be read according to the position of "his" second hand.

Training clocks resistent to thrown balls
for indoors see pages 92 and 93.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Outdoor Clocks (also suitable for large halls)
four faces, backlighted

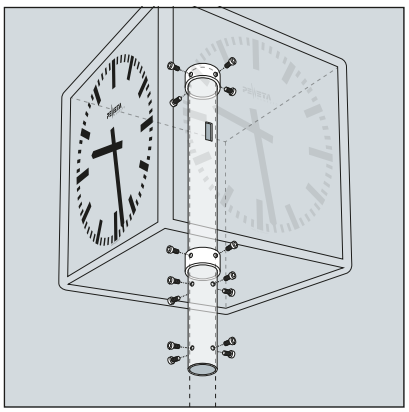
Outdoor
analog
four faces

Type series
790

71.**790**.626 shown
with pole adapter 01.790.001

Extraordinarily sturdy **high quality industrial grade** outdoor clocks. Also suitable for indoors, e.g. for large halls.
Solid workmanship, backlighted, weather protected case (IP54/EN 60 529).

We provide a ready-to-install product which can be mounted and connected without problem. The clock contains finished electrical wiring as well as mechanical fixing points for mounting. On request, we will be happy to support you with additional mounting instructions and other information.



Pole adapter 01.**790**.001
As a minimum, the pole must be inserted up to the floor plate of the clock case. For optimum stability, however, the pole should reach as far as the top panel of the clock case.

Different face and hand variations are possible (option).

Clock cubes for indoor use
see pages 84 ... 87.

Case
- cir. 780 x 780 x 780 mm
  weight cir. 80 kg
- cir. 980 x 980 x 980 mm
  weight cir. 100 kg

Weatherproof metal case, four faces, including light fitting. Frame of extruded hollow aluminium mouldings, neatly mitred at all corners. Clock faces are attached to frame with hidden stainless steel hinges and inspection latches for maintenance access. Interior of case permanently ventilated to avoid condensation. Outside surface anodised in silver (E6/EV1) as standard, or, at a surcharge, custom enamelled (option).

Mounting
As standard, no mounting fixtures are included in delivery shipment.
Optional mounting accessories:
- A reinforced floor plate for mounting on solid ground
- A pole adapter for centred mounting, diameter adapted to the existing pole. The adapter extends from the bottom of the clock case's top panel as far as 300 mm below the floor plate of the case. The pole may be inserted into the inside of the clock case at will.

The clock case is designed for wind loads of up to cir. 0.5 KN/m² (standard value). Actual wind loads depend on the individual location and have to be accounted for locally. This considered, a sufficiently firm footing is to be made sure.

Front glasses
Single-pane safety glass (according to German safety standard ESG), embedded in permanently elastic, weatherproof special gaskets.

Faces (backlighted)
Acrylic plastic, translucent, white, 5 mm, large DIN black bar markings. Very distinctive and easy doubt-free reading even over longer distances. Other face and hand variations are available on request (options). Faces printed according to DIN 41 049.

Illumination
Fluorescent tubes for 230 VAC/50…60 Hz are installed and wired as standard.
As an option, LED tubes can be included instead of fluorescent tubes.

Hands
Pointed black DIN bar-type hands (DIN 41 902) for hour and minute. Distinctive red "Railway Station clock" type second hands with "eye" on slave clock with synchronous second hands (**74**.xxx) only.

Outdoor
analog
four faces

Type series
790

Clock type ▶ Face dimensions	600 x 600 mm Item No.	€ each	800 x 800 mm Item No.	€ each
DCF77 radio controlled clock, mains operated 230 VAC [1]	52.**790**.626	**6,230.–**	52.**790**.826	**7,990.–**
Slave clock, minute pulse 12...60 V	71.**790**.626	**5,690.–**	71.**790**.826	**7,450.–**
Slave clock, min. pulse 12/24 V, synch. second hand 230 VAC/50 Hz	74.**790**.626	**7,470.–**	74.**790**.826	**9,230.–**
Telegramm-Nebenuhr, *DCFport24*, 24 V, Netzbetrieb 230 V [2]	83.**790**.626	**6,100.–**	83.**790**.826	**7,860.–**
Funktelegramm-Nebenuhr, *AirPort24*, Netzbetrieb 230 V, mit Gangreserve	85.**790**.626	**6,335.–**	85.**790**.826	**8,095.–**
NTP-Systemuhr (NTP client), Synchronisation über LAN, PoE [3]	91.**790**.626	**6,460.–**	91.**790**.826	**8,220.–**

Accessories	Item No.	€ each
Pole adapter, length outside case 300 mm, for mounting on top of existing pole (measurements are to be coordinated)	01.**790**.001	**890.–**
Reinforced floor plate, necessary for on-site mounting	01.**790**.003	**350.–**
Shipment packing (sturdy wood crate/planking)	01.**790**.004	**on request**

Options	Suffix	Surcharge € each
Case custom enamelled	**-10**	**on request**
Case with lugs for suspension by ropes or chains (indoor mounting only)	**-30**	**475.–**
Faces with nostalgic hands and Roman numerals (instead of bar markings with bar-type hands)	**-24**	**on request**
Backlighting by LED tubes (instead of fluorescent tubes)	**-43**	**650.–**
Light-sensitive switch for internal illumination	**-44**	**390.–**
Custom logo on clock face	**-47**	**on request**

Clocks of this type series are also available with Arabic numerals.
To order, replace the 7th digit "2" of the Item No. by "1", Example: 71.**790**.616. Faces with Arabic numerals.

Options – just as *you* like them …
These clocks are available optionally with customised features at the surcharges as listed. Just pick your option(s) and add the appropriate suffix(es) to the Item No.

Security advice:
Fulfilment of local building standards and other pertinent safety regulations as well as preparation of the mounting surface or load bearing calculations for the foundation and wind loads on the supporting structure are always the responsibility of the customer and/or his architect/building contractor.

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 177).

NTP
NTP system clocks require a PEWETA master clock (see from page 172 on) or an NTP time server (see page 179).

[1] A remotable DCF77 receiving aerial is included in delivery shipment.
[2] *DCFport24* pulse telegram slave clocks require a 230 VAC power supply.
[3] NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

Clock cubes for indoor use
see pages 84 … 87.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Digital Displays, outdoor
showing the time, alternating with date and temperature

Digital displays
single-sided
outdoor

Type series
810

52.**810**.251 shown

Large, very sturdy digital displays with distinct, double-row LEDs, optimum readability, even at longer distances.

For sports applications, these LED digital displays can also be used as stopwatches. Besides basic count-up and count-down functions a complete training program with various cycles and breaks that starts automatically when triggered can be programmed using the infrared remote control, included in delivery shipment.

Examples show time, date, temperature, and stopwatch modes

LED digital displays for indoors
see pages
140 and 141.

Case
- cir. 830 x 320 x 90 mm (cipher height 160 mm)
- cir. 1230 x 400 x 90 mm (cipher height 250 mm)

very sturdy aluminium case, enamelled black.
Protection grade IP 54 (EN 60 529).

Resistance to thrown balls
LED digital displays of this type series are resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3 and thus are suitable for school yards and sporting facilities.

Mounting
On-wall mounting by means of 4 angular metal brackets (included in delivery shipment).

Front glass
Flat shock-resistant plastic glass.

LED digital display
7-segment display technology, colour red, automatic brightness control. 4-digit display with double-row LEDs showing hours and minutes, date, and temperature, either permanently or alternating, intervals adjustable.
Operating voltage 230 V AC/50..60 Hz.

Infrared remote control unit
All settings and the operation of the stopwatch mode are triggered by a wireless infrared remote control unit, included in delivery shipment.

Stopwatch mode
This LED digital display can also be used as a stopwatch in count-up, count-down, and training modes. The 4-digit LED display shows minute and second readings. Operation by the wireless infrared remote control unit included.
Functions possible:
- **count-up** with split times
- **count-down** with indication of initial value
- **training** with adjustable number and duration of cycles and breaks.

Further models
of this type series with different cipher heights and/or with a 6-digit display (hh:mm:ss) are available on request .

Technical data		Cipher height 160 mm	Cipher height 250 mm
Case	colour	black (RAL 9005)	black (RAL 9005)
	dimensions (W x H x D)	cir. 830 x 320 x 90 mm	cir. 1230 x 400 x 90 mm
	weight	cir. 10 kg	cir. 15 kg
LED display	cipher height hours/minutes	cir. 160 mm	cir. 250 mm
	reading distance	cir. 60..70 m	cir. 90..100 m

Type	Cipher height ▶ Operating voltage ▼	160 mm Item No.	€ each	250 mm Item No.	€ each
Quartz clock	230 V AC	42.**810**.161	**2,595.–**	42.**810**.251	**3,395.–**
DCF77 radio controlled clock[1)]	230 V AC	52.**810**.161	**2,895.–**	52.**810**.251	**3,695.–**
Telegram slave clock, *DCFport24*, 24 V	230 V AC	83.**810**.161	**2,695.–**	83.**810**.251	**3,495.–**

[1)] A remotable DCF77 receiving aerial is included in delivery shipment.

Digital displays
single-sided
outdoor

Type series
810

DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remotable DCF77 aerial (IP 68). Thus, optimum reception quality can be achieved regardless of the final placement of the clock itself. However, DCF77 radio controlled clocks will only function correctly within a radius of approx. 1,500 km around Mainflingen (50 km east of Frankfurt/M.).

PEWETA *DCFport24*
PEWETA DCFport24 slave clocks require a PEWETA master clock (see from page 172 on).

LED digital displays for indoors
see pages 140 and 141.

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

LED Soccer Score Display Board, outdoor
showing game time and time respectively

Digital displays
single-sided
outdoor

Type series
830

24.**830**.422 shown

7-segment LED technology score display board, cipher height 460 mm, reading distance up to cir. 180 m.
Suitable for soccer, rugby, and lawn hockey.

Scoreboards for indoors
see pages 142 ... 148.

Case
cir. 2500 x 1800 x 90 mm consisting of 2 modules. Very sturdy aluminium cases, enamelled black. Protection grade IP 54 (EN 60 529).

Resistance to thrown balls
The soccer score display board of this type series is resistant to thrown balls in accordance with German standards VDE 0710, part 13:1981-05 and DIN 18032, part 3 and thus are suitable for outdoor sporting facilities.

Mounting
On-wall mounting by means of 4 angular metal brackets (included in delivery shipment).
Rear-side mounting bracket for attachment to an I-beam or pole pipe available on request.

Front glass
Flat shock-resistant plastic glass.

HOME/GUEST marking
Permanent marking by self-adhesive film, available in various languages.

Score display
One 2-digit display per team, 7-segment triple-row LED technology, cipher colour red, cipher height 460 mm. Manual brightness control in 9 steps triggered by the control panel.

Game time display
4-digit display with 7-segment triple-row LED technology, cipher colour red, cipher height 460 mm, showing game time in minutes and seconds during a game.
Real time display showing hours and minutes when no game is going on possible. Quartz technology (DCF77 receiving aerial or time display interface to import the *DCFport24* pulse telegram from a PEWETA master clock available as accessories).

Scope of delivery
- **1 control panel**, multi-lingual, transfer by radio, frequency 868 .. 869 MHz (standard), or wire-based (option), with LCD display and keyboard. Programs for soccer, rugby, and lawn hockey stored
- **1 wall plug adapter** for charging the rechargeable batteries of the control panel
- **1 transport case** (cir. 355 x 255 x 86 mm) to safely store control panel and plug adapter.

Further models
of this type series with 250 mm LED cipher height for small sports facilities or with LED text display for team names or messages in moving-script-method available on request.

Technical data	
Data transmission	wireless 868..869 MHz
Case dimensions (WHD)	cir. 2500 x 1800 x 90 mm
Front cover	polycarbonate treated for low reflectivity
Cipher height	460 mm
Reading distance	cir. 180 m, view angle cir. 160°
Weight	cir. 85 kg
Operating voltage	mains 220..230 V AC/50..60 Hz

Type	Score display	Item No.	€ each
Display board with (game) time display	2 digits per team	24.**830**.422	**7,990.–**

Accessories	Item No.	€ each
DCF77 receiving aerial (IP65) for precise local time and fully automatic change-over of summer/winter time	03.**925**.185	**295.–**
Time display interface to import the *DCFport24* pulse telegram from a PEWETA type series 921 master clock	04.**676**.000	**95.–**

Safety advice:
Fulfilment of local building standards and other pertinent safety regulations as well as preparation of the mounting surface or load bearing calculations for the foundation and wind loads on the supporting structure are always the responsibility of the customer and/or his architect/building contractor.

Digital displays
single-sided
outdoor

Type series
830

Scoreboards for indoors
see pages
142 ... 148.

Control units

Control Units

- Master Clocks/Signalling Master Clocks
- DCF77/GPS Receiving Aerials
- Booster for Master Clocks
- *AirPort24* Transmitter and Repeater
- NTP Time Server
- 19" Modular Master Clock System

Clock systems, as compared to stand-alone clocks, have one main advantage: all connected slave clocks display *identical* time. The "source of time" for this time display service always is the Master Clock.

Master Clock/ Signalling Master Clock

Using an internal quartz time base, the maximum error is cir. ±0.1 sec. per day. If a radio receiver (DCF77 or GPS) is connected, the Master Clock will evaluate the time-and-date signals received, check for and correct any possible discrepancies and then transmit the updated time information as pulses (minute-, half minute- or second-pulses) or as a telegram (e.g. PEWETA *DCFport24* telegram by wire, *AirPort24* wireless telegram) to all connected slave clocks. Summer/ winter time change-over is performed automatically. If the Master Clock is required, in addition to transmitting the time-and-date information, to effect switching operations, such as activation of optical and/or acoustic signalling devices to indicate start of work or break periods, in industry or at schools, master clocks can be equipped with additional signal (switching) outputs. These output terminals are free-floating and capable of controlling also other external equipment, such as lighting, air conditioning, ventilation, heating or security alarm systems as well as many others.

Conventional pulse

Conventional slave clocks are advanced by alternating polarity pulses (minute-pulse or second-pulse) one time unit at a time. 4-core wire is recommended for the slave clock control line(s), recommended type is J-Y(ST)Y 2x2x0,8 mm², but existing 2-wire lines may continue in use.

DCFport24 pulse telegram

PEWETA slave clocks with *DCFport24* input are controlled by a wire-transmitted DCF77 pulse (time and date) telegram. Their advantages over conventional slave clocks are:

- extremely easy "plug-and-play" installation
- no need to watch for control line polarity
- quick initiation by automatic, extremely rapid self-adjustment to current time, regardless of position of hands on analog clocks at delivery
- Central second hand(s) available as standard for clock faces up to 400 mm diameter.
- When changing over from conventional pulse control to the PEWETA *DCFport24* pulse telegram, existing 2-wire lines or networks may continue in use. For new installations, use of 4-core wire type J-Y(ST)Y 2x2x0,8 mm² is recommended.
- There is a possibility to use existing conventional slave clocks simultaneously with new PEWETA *DCFport24* pulse telegram slave clocks. To make use of this possibility, a PEWETA Master Clock series 920 with 2 slave clock lines is required as a minimum. Parallel operation on a single slave clock line requires a PEWETA Master Clock series 921. Type of pulse and/or telegram may be assigned to each slave clock line individually.

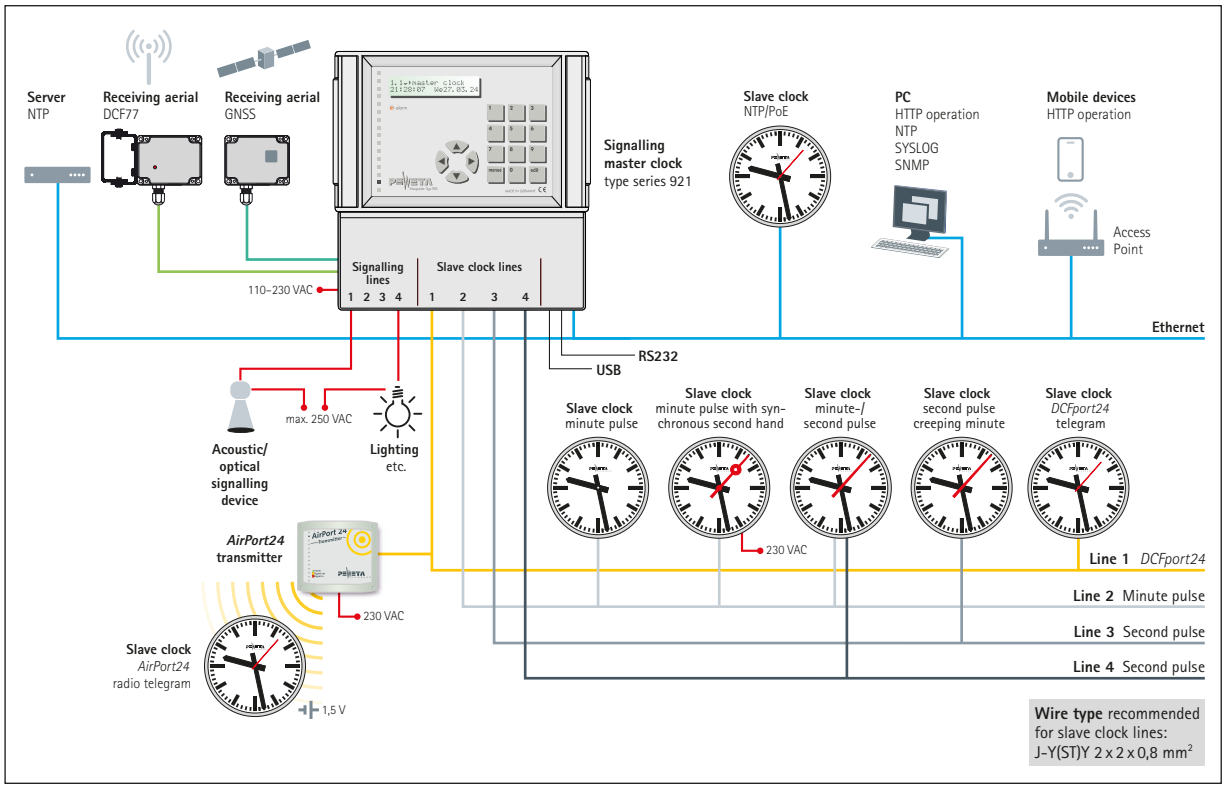
AirPort24 radio telegram (RF)

The PEWETA *AirPort24* system enables a

- wireless transmission of time and date information to all *AirPort24* slave clocks (868..869 MHz frequency band).

For more information please ask for our data sheet.

Wiring Diagram
for PEWETA type series 921 Master Clock



Wiring diagram for type series 921 Master Clock

Slave clocks of the following types may be operated by a PEWETA type series 921 Master Clock:

Minute Pulse, 12 ... 60 V
The polarity alternating pulse is distributed by a two-wire line. In analog clocks, the minute pulse also is the power supply. Before initiation, all slave clocks must be manually pre-set to indicate the starting time. All clocks must be connected in the same polarity.

Minute and Second Pulse, 12/24 V
To control slave clocks with minute/second pulse movements, a Master Clock with a minimum of 2 slave clock lines is required. In addition to the minute pulse (see above), a polarity alternating second pulse is transmitted on a separate (!) 2-wire line. In analog clocks, the minute and second pulse also is the power supply. Before initiation, all slave clocks must be manually pre-set to indicate the starting time. All clocks must be connected in the same polarity.

Minute Pulse 12/24 V, Synchronous Second, 230 V AC/50...60 Hz
Same function as minute pulse 12...60 V, however, the creeping second hand is powered by 230 V AC/50...60 Hz mains and is synchronised to the polarity alternating minute pulse at every full minute.

Second Pulse 12/24 V with Creeping Minute
To control slave clocks with a second pulse only movement a second pulse with a 12-hour cycle is required. The polarity alternating second pulse is transmitted by a 2-wire line, the creeping minute hand is "pulled along". In analog clocks, the second pulse also is the power supply. Before initiation, all slave clocks must be manually pre-set to indicate the starting time. All clocks must be connected in the same polarity.

***DCFport24* Telegram**
An interference-protected DCF77 telegram (12/24 V) is transmitted by a 2-wire line. All clocks connected to the system will automatically adjust to current time (plug-and-play), independent of polarity and position of hands in analog clocks. No manual pre-setting of time is required. For analog clocks and LCD digital clocks, this also provides the operating power. Analog clocks with faces up to 400 mm diameter always come equipped with a second hand.
The *DCFport24* is also capable of providing power for a limited number of LED digital clocks, otherwise, 230 V AC/50...60 Hz (for other voltages, please call us) mains power is required.
For further information please ask for our data sheet.

***AirPort24* Radio Telegram**
To control slave clocks by *AirPort24* radio telegram, at least 1 *AirPort24* transmitter, and if conditions dictate, 1 *AirPort24* repeater are required, in addition to a PEWETA type 921 master clock. A wire network, as in conventional slave clock systems, is not required, complete time and date information is distributed interference-proof by RF transmission (in the 868 ... 869 MHz UHF band) throughout a radius of cir. 250 m to all slave clocks located in this reception area. All clocks self-adjust to current time immediately and fully automatically (plug-and-play) . Analog clocks may operate either on 1.5 V battery power or 230 V AC/50...60 Hz mains, LED digital clocks always need 230 V AC/50...60 Hz (other voltages/cycles on request) mains power. Analog clocks with faces up to 400 mm diameter always come equipped with a second hand.
For further information about the *AirPort24* radio telegram please ask for our data sheet.

Different clock drive modes may be used in parallel on different slave clock lines.

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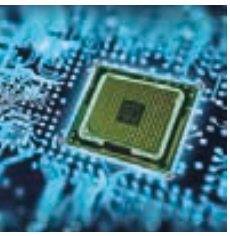
Master Clock/Signalling Master Clock

DCF77, GPS or LAN/NTP controlled



Master Clocks/ Signalling Master Clocks and extras

Type series **921**

Type series **925**

10.**921**.122 shown

Typical performance data

Control of slave clocks

- **1, 2 or 4 slave clock lines**
- **Line voltage** 12 V or 24 V
- **Line mode** may be selected as
  - alternating polarity minute pulse
  - alternating polarity half-minute pulse
  - alternating polarity second pulse
  - *DCFport24* telegram
  - *DCFport24* and minute pulse, parallel operation of conventional slave clocks and *DCFport24* telegram slave clocks on a single slave clock line.
- **Pulse duration** is adjustable from .2 sec to 9.9 sec.
- **Total output power** is 1 A at 24 V line voltage to control up to
  - 160 conventional slave clocks (at 6 mA/24 V each) or up to
  - 50 PEWETA *DCFport24* telegram slave clocks, expandable by using a pulse amplifier (Item Number 10.**930**.124), see page 176.
- Optional **power outage reserve**, selectable for individual slave clock lines. A rechargeable 12 V/1.5 Ah NiMh battery provides for continued operation of the master clock and all connected clocks in case of a mains power outage.
- Upon **return of mains power** (e. g. after a mains outage) all connected clocks immediately readjust to current time.
- **Slave clock lines with voltage and current surveillance**. Mains power outage, overload (or low voltage when operating in memory mode) in the clock control line will cause an alarm by red LED as well as an alarm flag in the display and messages via network as SYSLOG or SNMP.
- **Slave clocks will automatically be stopped when low voltage is detected.**
- **Secondary Master Clocks** for expanding the clock system may be synchronised by the *DCFport24* output.
- For the control of world time displays, freely configurable and pre-programmed **zone times** are included.
- 1 **RS232 serial interface** (output) is available for continuous transmission of time-and-date information in ASCII format.

Signalling device

- 0, 2 or 4 programmable signal contacts (switch points/free-floating contacts) capable of 250 VAC/2 A
- Choice of program run for a day, a week or a year
- 300 switch actions programmable
- ON/OFF switching or pulse action as well as suppress and release functions
- Fastest possible switching sequence: 1 second
- Fixed-program calendar through 2099
- Data retention on power outage > 5 years.

Network

- Ethernet port (RJ45)
- Easy set-up by web browser. Program slave clock lines, switch actions and system settings from a **PC**, a **tablet** or a **smartphone**
- Ethernet IEEE 802.3 10/100BASE-T: HTTP, NTP, (S)NTP, DHCP, SYSLOG, SNMP

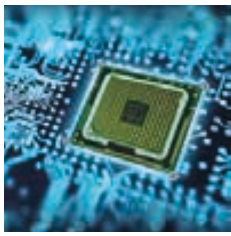
Additional performance data

- Radio control by DCF77 (option)
- Radio control by GNSS/GPS-GLONASS-GALILEO (option)
- NTP/Network Time Protocol input terminal (RJ45) for synchronisation by LAN (option)
- Alphanumeric LCD display for user-friendly dialog-type navigation, time-and-date readout and alarm indications
- PIN-coded keyboard lock
- A temperature compensated crystal oscillator (TCXO) ensures a deviation of less than 0.1 seconds/day during autonomous operation
- USB 2.0 Type A port for software updates by USB stick.

Technical data		
Case	width x height x depth	cir. 236 x 239 x 85 mm
	material	ABS
	colour	RAL 7035 (light grey)
	weight	cir. 2.5 kg (incl. power outage batteries)
Milieu	VDE classification	I
	protection grade (EN 60 529)	IP 32
	surrounding temperature	0 °C up to 40 °C
Electrical values	mains voltage	220..230 V AC/50 ... 60 Hz
	power consumption	1.5 ... 38 VA
	line voltage/pulse mode	12 V or 24 V
Total power output	24 V minute pulse	1000 mA max. (for up to160 slave clocks at 6 mA)
	24 V second pulse	500 mA max. (for up to 80 slave clocks at 6 mA)
	DCFport24 telegram 24 V	600 mA max. (for up to 50 slave clocks at 12 mA)
	DCFport24+ minute pulse 24 V	600 mA max. (for up to 50 slave clocks at 12 mA)
Network	topology	Ethernet IEEE 802.3
	bit rate	10/100BASE-T
	connector	RJ45
	network configuration	DHCP/manually

Type	Number of slave clock lines	Number of signalling contacts	Power outage reserve	Item No.	€ each
Master Clock	1	none	no	10.**921**.010	**829.–**
	1	none	yes	10.**921**.110	**989.–**
Signalling Master Clock	1	2	no	10.**921**.012	**1,025.–**
	1	2	yes	10.**921**.112	**1,185.–**
Master Clock	2	none	no	10.**921**.020	**930.–**
	2	none	yes	10.**921**.120	**1,090.–**
Signalling Master Clock	2	2	no	10.**921**.022	**1,140.–**
	2	2	yes	10.**921**.122	**1,300.–**
	2	4	no	10.**921**.024	**1,360.–**
	2	4	yes	10.**921**.124	**1,520.–**
Master Clock	4	none	no	10.**921**.040	**1,160.–**
	4	none	yes	10.**921**.140	**1,320.–**
Signalling Master Clock	4	4	no	10.**921**.044	**1,580.–**
	4	4	yes	10.**921**.144	**1,740.–**

Options	Suffix	Surcharge € each
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**
NTP client for system time synchronisation via LAN	**-98**	**179.–**
NTP server for synchronising NTP clients via LAN incl. NTP client for system time synchronisation via LAN	**-99**	**349.–**



DCF77 Receiving Aerial for all type series 921 Master Clocks

03.**925**.111 shown

The DCF77 time signal telegram, as transmitted by the German time signal transmitter at Mainflingen near Frankfurt/Main, is a superior time standard for synchronization and automatic change from summer to winter time of radio controlled stand-alone clocks and master/slave clock systems. This PEWETA DCF77 aerial provides time-and-date information to all PEWETA Master Clocks and Signalling Master Clocks.

- Weatherproof plastic case (IP 68), for indoor/outdoor mounting, dimensions (W x H x D) cir. 100 x 65 x 37 mm
- Stainless steel mounting bracket
- 5 m connecting wire (LIYCY 4 x 0,25 mm²) included in delivery shipment, may be extended to a maximum length of 100 m.

Type	Item No.	€ each
External DCF77 receiving aerial (IP 68), for PEWETA Master Clocks	03.**925**.111	**169.–**

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

19" Master Clock/Signalling Master Clock

DCF77, GPS or LAN/NTP controlled

Master Clocks/ Signalling Master Clocks and extras

Type series
921

Type series
925

11.**921**.122 shown

Typical performance data

Control of slave clocks

- **2 or 4 slave clock lines**
- **Line voltage** 12 V or 24 V
- **Line mode** may be selected as
  - alternating polarity minute pulse
  - alternating polarity half-minute pulse
  - alternating polarity second pulse
  - *DCFport24* telegram
  - *DCFport24* and minute pulse, parallel operation of conventional slave clocks and *DCFport24* telegram slave clocks on a single slave clock line.
- **Pulse duration** is adjustable from .2 sec to 9.9 sec.
- **Total output power** is 1 A at 24 V line voltage to control up to
- 160 conventional slave clocks (at 6 mA/24 V each) or up to
- 50 PEWETA *DCFport24* telegram slave clocks, expandable by using a pulse amplifier (Item Number 10.**930**.124), see page 176.
- **Power outage reserve**, selectable for individual slave clock lines. A rechargeable 12 V/1.5 Ah NiMh battery provides for continued operation of the master clock and all connected clocks in case of a mains power outage.
- Upon **return of mains power** (e. g. after a mains outage) all connected clocks immediately readjust to current time.
- **Slave clock lines with voltage and current surveillance**. Mains power outage, overload (or low voltage when operating in memory mode) in the clock control line will cause an alarm by red LED as well as an alarm flag in the display and messages via network as SYSLOG or SNMP.
- **Slave clocks will automatically be stopped when low voltage is detected.**
- **Secondary Master Clocks** for expanding the clock system may be synchronised by the *DCFport24* output.
- For the control of world time displays, freely configurable and pre-programmed **zone times** are included.
- 1 **RS232 serial interface** (output) is available for continuous transmission of time-and-date information in ASCII format.

Signalling device

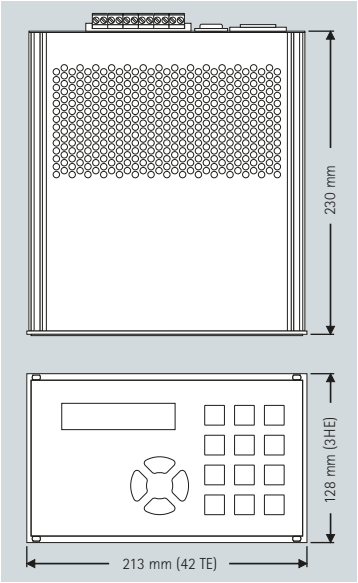
- 0, 2 or 4 programmable signal contacts (switch points/free-floating contacts) capable of 250 VAC/2 A
- Choice of program run for a day, a week or a year
- 300 switch actions programmable
- ON/OFF switching or pulse action as well as suppress and release functions
- Fastest possible switching sequence: 1 second
- Fixed-program calendar through 2099
- Data retention on power outage > 5 years.

Network

- Ethernet port (RJ45)
- Easy set-up by web browser. Program slave clock lines, switch actions and system settings from a **PC**, a **tablet** or a **smartphone**
- Ethernet IEEE 802.3 10/100BASE-T: HTTP, NTP, (S)NTP, DHCP, SYSLOG, SNMP

Additional performance data

- Radio control by DCF77 (option)
- Radio control by GNSS/GPS-GLONASS-GALILEO (option)
- NTP/Network Time Protocol input terminal (RJ45) for synchronisation by LAN (option)
- Alphanumeric LCD display for user-friendly dialog-type navigation, time-and-date readout and alarm indications
- PIN-coded keyboard lock
- A temperature compensated crystal oscillator (TCXO) ensures a deviation of less than 0.1 seconds/day during autonomous operation
- USB 2.0 Type A port for software updates by USB stick.



Technical data		
Case	width	42 TU (213.0 mm)
	height	3 HU (128.0 mm)
	depth	cir. 230.0 mm
	material	metal
	weight	cir. 2.7 kg (incl. power outage batteries)
Milieu	VDE classification	I
	protection grade (EN 60 529)	IP 10
	surrounding temperature	0 °C up to 40 °C
Electrical values	mains voltage	220..230 V AC/50 ... 60 Hz
	power consumption	1.5 ... 38 VA
	line voltage/pulse mode	12 V or 24 V
Total power output	24 V minute pulse	1000 mA max. (for up to160 slave clocks at 6 mA)
	24 V second pulse	500 mA max. (for up to 80 slave clocks at 6 mA)
	DCFport24 telegram 24 V	600 mA max. (for up to 50 slave clocks at 12 mA)
	DCFport24+ minute pulse 24 V	600 mA max. (for up to 50 slave clocks at 12 mA)
Network	topology	Ethernet IEEE 802.3
	bit rate	10/100BASE-T
	connector	RJ45
	network configuration	DHCP/manually

Type	Number of slave clock lines	Number of signalling contacts	Power outage reserve	Item No.	€ each
Master Clock	2	none	yes	11.**921**.120	**1,340.–**
Signalling Master Clock	2	2	yes	11.**921**.122	**1,550.–**
Signalling Master Clock	4	4	yes	11.**921**.144	**1,990.–**

Extras	Item No.	€ each
19" rack element, 84 WU, 3 HU	01.**921**.084	**180.–**
Blanking plate, 42 TU, 3 HU	01.**921**.142	**25.–**

Options	Suffix	Surcharge € each
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**
NTP client for system time synchronisation via LAN	**-98**	**179.–**
NTP server for synchronising NTP clients via LAN incl. NTP client for system time synchronisation via LAN	**-99**	**349.–**

DCF77 Receiving Aerial for all type series 921 Master Clocks

03.**925**.111 shown

The DCF77 time signal telegram, as transmitted by the German time signal transmitter at Mainflingen near Frankfurt/Main, is a superior time standard for synchronization and automatic change from summer to winter time of radio controlled stand-alone clocks and master/slave clock systems. This PEWETA DCF77 aerial provides time-and-date information to all PEWETA Master Clocks and Signalling Master Clocks.

- Weatherproof plastic case (IP 68), for indoor/outdoor mounting, dimensions (W x H x D) cir. 100 x 65 x 37 mm
- Stainless steel mounting bracket
- 5 m connecting wire (LIYCY 4 x 0,25 mm²) included in delivery shipment, may be extended to a maximum length of 100 m.

Type	Item No.	€ each
External DCF77 receiving aerial (IP 68), for PEWETA Master Clocks	03.**925**.111	**169.–**

Booster Amplifier

Wall or top hat bar mounting, or 19" rack mounting

Booster amplifier

Type series **930**

When a Master Clock reaches its limits of total power output, pulse boosting amplifiers are needed for further extension of the master/slave clock system.

The short-circuit-proof slave clock line output terminals can be freely configured as

- alternating polarity minute pulse
- alternating polarity second pulse
- *DCFport24* pulse telegram.

Electronic buffer memory and automatic updating circuitry cover power outages and ensure return to correct time if power returns within 24 hours.

Item No. 10.930.124

1 slave clock line input/output terminal 12/24 V, total output power 1.5 A at either 12 V or 24 V, capable of controlling up to

- 250 conventional slave clocks (at 6 mA/24 V)
  or
- 125 *DCFport24* pulse telegram slave clocks (á 12 mA/24 V).

Plastic case (IP 20/EN 60529) for wall mounting or mounting on a 35 mm top hat bar. Operating voltage 230 VAC/50 ... 60 Hz, (external power supply for mounting on a 35 mm top hat bar, included in delivery shipment).

Item No. 11.930.224

2 slave clock lines input/output terminals 12 V or 24 V, total output power 3 A (1.5 A per line), capable of controlling up to

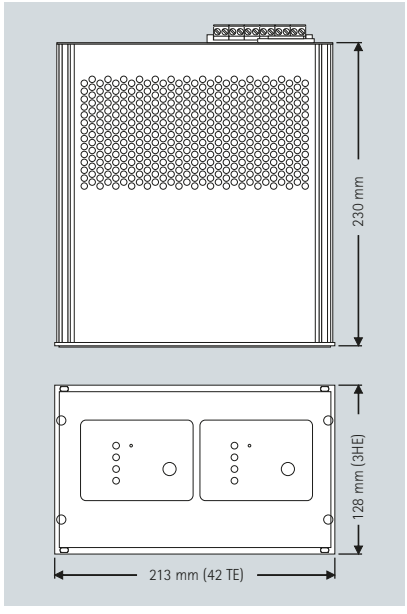
- 500 (max. 250 per line) conventional slave clocks (at 6 mA/24 V)
  or
- 250 (max. 125 per line) *DCFport24* pulse telegram slave clocks (at 12 mA/24 V).

Metal case (IP 10/EN 60529) for mounting in 19" sub-rack, dimensions (W x H x D) 213 mm (42 WU) x 128 mm (3 HU) x 230 mm. Operating voltage 230 VAC/50 ... 60 Hz.

11.**930**.224 shown

Technical data	10.**930**.124	11.**930**.224
Case	plastic case for wall mounting or mounting on top hat bar	metal case 3 HU / 42 WU for mounting in sub-rack
Dimensions	cir. 100 x 75 x 125 mm	cir. 213 x 128 x 230 mm
Operating voltage	230 VAC/50 ... 60 Hz	230 VAC/50 ... 60 Hz
Pulse/line output voltage	24 V	24 V
Pulse power	1 x 1500 mA	2 x 1500 mA
minute pulse	for up to 250 slave clocks at 6 mA	for up to 500 slave clocks at 6 mA
second pulse	for up to 250 slave clocks at 6 mA	for up to 500 slave clocks at 6 mA
DCFport24 pulse telegram	for up to 125 slave clocks at 12 mA	for up to 250 slave clocks at 12 mA

Type	Item No.	€ each
Booster amplifier for wall mounting or mounting on top hat bar, 1 line output, 24 V/1.5 A	10.**930**.124	**769.–**
Booster amplifier in modular cassette for mounting in 19" sub-rack, 2 line outputs, 24 V/2 x 1.5 A	11.**930**.224	**1,649.–**



10.**930**.124 shown

▲ Booster amplifier for wall mounting or mounting on top hat bar

◀ Booster amplifier in 3 HU / 42 WU metal case for mounting in sub-rack

All prices are subject to change without notice, packing and shipping cost (see page 185) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

PEWETA *AirPort24* Transmitter and Repeater

Time distribution by RF transmission (868 ... 869 MHz)

As an alternative to wire-bound clock systems or to individual clocks with DCF77 aerials, the PEWETA *AirPort24* radio telegram technology permits the distribution of a time signal by radio inside or outside of buildings.

The PEWETA *AirPort24* transmitter receives the time and date telegram either by wire from a PEWETA type series 921 Master Clock (see pages 172 ... 175) or as an NTP client by LAN and transmits the complete time/date information by radio (in the 868..869 MHz UHF-band) with a range of about 250 m inside buildings (up to cir. 1,000 m outdoors).
All PEWETA *AirPort24* radio telegram slave clocks within this range will automatically self-adjust to the current time and date indication.

Using PEWETA *AirPort24* repeaters extends the range by a further 250 m per repeater.

PEWETA *AirPort24* transmitter

Transmitter with integrated aerial for distributing the PEWETA *AirPort24* time/date telegram to all radio telegram slave clocks within a radius of cir. 250 m inside buildings (up to cir. 1,000 m outdoors).
Choice of **input signal**:

- **PEWETA *DCFport24* telegram**
  for synchronization by a PEWETA type series 921 Master Clock
- **NTP**
  for synchronization by LAN (NTP client).

PEWETA *Airport24* repeater

Receives the PEWETA *AirPort24* time/date telegram from the PEWETA *AirPort24* transmitter and transmits the PEWETA *AirPort24* time/date telegram to radio telegram slave clocks within a radius of cir. 250 m inside buildings (up to cir. 1,000 m outdoors).

10.**940**.100 shown

Technical data for transmitter and repeater		
Frequency range		868 ... 869 MHz
Output power		adjustable in steps, up to 500 mW
Operating voltage		230 V AC/50 ... 60 Hz (mains adapter included)
Case	material	plastic, light grey
	dimensions	cir. 199 x 178 x 57 mm
	protection grade	IP 54 (EN 60529)

PEWETA *AirPort24* transmitter	**Item No.**	**€ each**
Input: PEWETA *DCFport24* pulse telegram	10.**940**.100	**825.–**
Input: NTP synchronization by LAN (NTP client)	10.**940**.200	**999.–**

PEWETA *AirPort24* repeater	**Item No.**	**€ each**
Input: PEWETA *AirPort24* radio telegram	10.**941**.100	**925.–**

Characteristics

- Transmission of the complete time/date telegram
- Reliable transmission of time/date telegram within a range of 250 m inside buildings, more than 1,000 m outdoors
- Unlimited number of *AirPort24* telegram slave clocks within this range
- Cost-effective and simple wireless installation
- Capable of unlimited expansion by using repeaters
- Location of clocks at random, indoors or outdoors within transmission range
- Also suitable to expand existing, wire supported slave clock networks.

10.**941**.100 shown

***AirPort24* transmitter and repeater**

Type series **940**

Type series **941**

Any questions about technical details?

We will be happy to help with hints to planned projects and examples of specific applications.
Don't hesitate to contact us.
We look forward to your call or your e-mail.

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Prices shown as of January 1st, 2024. If you have any questions or require additional information, please contact us, we will gladly give advice.

Slave Clock Control Unit

minute pulse 24 V output

Slave clock control unit

Type series
950

This slave clock control unit, governed by DCF77, is capable of controlling up to four indoor/outdoor slave clock movements (at 6 mA/24 V each). Specifically suited to operate in- or outdoor clocks (e. g. with advertising) and all other single, double, or 4-faced slave clocks.

By means of a DCF77 aerial the control unit receives the exact time including the trigger signal for the automatic change-over between summer and winter time. In case of impaired reception due to local conditions pulse transmission to the slave clocks connected will be kept up. After a power outage the slave clocks connected will automatically be adjusted to match the correct time. After installation the control unit operates completely autonomous and maintenance-free.

- Alternating polarity minute pulse, 24 V
- Total output power cir. 30 mA/24 V
- Output is tolerant of circuit shorting and overload
- Electronic buffer memory and update circuitry
- Fully automatic read-in of current time upon installation or after power outage, automatic change-over between summer and winter time
- Operating voltage 230 V AC/50 ... 60 Hz, power consumption cir. 2 VA
- Weatherproof (IP 65/EN 60 529) plastic case for wall mounting indoors/outdoors or mounting on a 35 mm top hat bar. Dimensions (W x H x D) cir. 120 x 80 x 55 mm
- External DCF77 receiving aerial (IP 68/EN 60 529) with stainless steel mounting bracket included. Connecting wire (LIYCY 4 x 0,25 mm²), 5 m included in delivery shipment, may be extended to a maximum length of 50 m.

10.**950**.100 shown

Type	Item No.	€ each
Slave clock control unit for wall mounting	10.**950**.100	**459.–**
Slave clock control unit for mounting on top hat bar	10.**950**.101	**469.–**

Options	Suffix	Surcharge € each
DCFport24 input for reading the *DCFport24* telegram from a type series 921 Master Clock	**-93**	**none**
AirPort24 input for reading the time information from the *AirPort24* radio telegram provided by a type series 940 *AirPort24* transmitter	**-94**	**159.–**
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	**-95**	**695.–**
NTP input for system time synchronisation via LAN	**-98**	**298.–**

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NTP Time Server

Network time distribution

The PEWETA NTP Time Server supplies the current time and date signal, received from the German DCF77 time protocol radio transmitter or from GPS satellite, to an IT network.

This enables all "clients" within the network, like for instance PCs, servers, smart phones, telephone systems, printers, and even clocks, to synchronize with this time base. A temperature controlled crystal oscillator (TXCO) ensures accurate timekeeping even in cases of a missing DCF77 or GPS radio signal. Maximum deviation during autonomous operation is +/- 16 seconds per year (standard version). Optionally, the NTP Time Server can be equipped with a crystal oven (OCXO), which reduces the maximum deviation during autonomous operation down to +/- 1.6 (!) seconds per year.

For security of operation, two time servers can be used to safeguard availability on the network (system redundancy). A web-based user interface provides for simple configuration of status messages, network settings, and safety adjustments. The support for a multitude of interfaces and formats offers maximum compatibility to common networks. The server, operating under a LINUX-based operating system, ensures maintenance-free long-term usage and can be updated if necessary. On the NTP Time Server PRO version, various common ASCII time codes can be selected for output through one of the 2 serial RS232 interfaces. Individual codes can be supplied on request.

If at least three NTP Time Servers are clustered (system redundancy) they act with a shared IP address on the network. If one of the NTP Time Servers provides a deviating time signal, this device will be deactivated and its function will be taken over by the other NTP Time Servers. Clustering functionality is included in each PEWETA NTP Time Server version as standard.

11.**960**.121

11.**960**.120 shown

Technical data	NTP Time Server PRO	NTP Time Server BASIC
Case	19" rack mount	table housing
Dimensions	1HU/84DU, WxHxD: 443x45x288 mm	WxHxD: cir. 335x45x240 mm
Network interface	2xRJ45 10/100 MBit	1xRJ45 10/100 MBit
Serial interface	2xRS232 (menu-guided setup)	–
10MHz interface	BNC socket, TTL at 50 Ohm	–
Alarm relay	1x free-floating	–
Status messages	via E-Mail, WinMail, SNMP, Display	
Netwerk protocols	TCP, UDP, TELNET, FTP, SSH (inkl. SFTP, SCP), HTTP, HTTPS, SYSLOG, IP v4, IP v6, DHCP, DHCP v6	
NTP protocols	NTP v2 (RFC 1119), NTP v3 (RFC 1305), NTP v4 (RFC 5905)	
NTP broadcast modes	Unicast, Manycast, Multicast, Broadcast	
SNMP	SNMPv1 (RFC 1157), SNMPv2c (RFC 1901–1908), SNMP v3 (RFC 3411–3418)	
Display	LC display, 2x40 characters, illuminated	
Power supply	100...240 V AC (50...60 Hz)	
	24 V DC (on request)	–
Power consumption (without options)	30 watts	20 watts

Type	Item No.	€ each
NTP Time Server PRO, including DCF77 radio receiver	11.**960**.120	**4,590.–**
NTP Time Server PRO, including GPS radio receiver	11.**960**.130	**5,790.–**
NTP Time Server BASIC, including DCF77 radio receiver	11.**960**.121	**3,490.–**
NTP Time Server BASIC, including GPS radio receiver	11.**960**.131	**4,190.–**

Extra	Item No.	€ each
19" mounting kit for NTP Time Server BASIC (resulting dimensions are 1 HU/84 WU)	01.**960**.100	**79.–**

Options for NTP Time Server PRO	Suffix	Surcharge € each
Quartz oscillator OCXO, accuracy level +/- 1.6 seconds/year	**-61**	**425.–**
2 additional RJ45 10/100BASE-T ports	**-62**	**590.–**
IRIG-B output	**-63**	**650.–**

NTP Time Server

Type series **960**

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19" Modular Master Clock System

Modular Master Clock System

Type series
980

The microprocessor-controlled Master Clock System is composed of modules and may be freely configured to meet any and all individual customer demands (choice of type and number of modules according to requirement). All functional units (henceforth called modules) are packaged as plug-in cassettes to fit 19" racks in free-standing or wall-mounted cabinets, already owned by the customer or to be separately ordered from us. The integrated system bus takes care of interconnecting and addressing the individual modules. Additional interfaces facilitate data exchange with all established networks.

Principle of Function

The virtual heart of the Master Clock System is the time base module, marked 1 in the schematic, from which all control of the Master Clock System emanates. To safeguard the security of operation, as a rule two time base modules (system redundancy) are used. In case of a power disruption, programmed configurations will be retained in a flash memory. The system is synchronised by the radio receiver module 2, connected to a choice of DCF77 or GPS remote antenna.

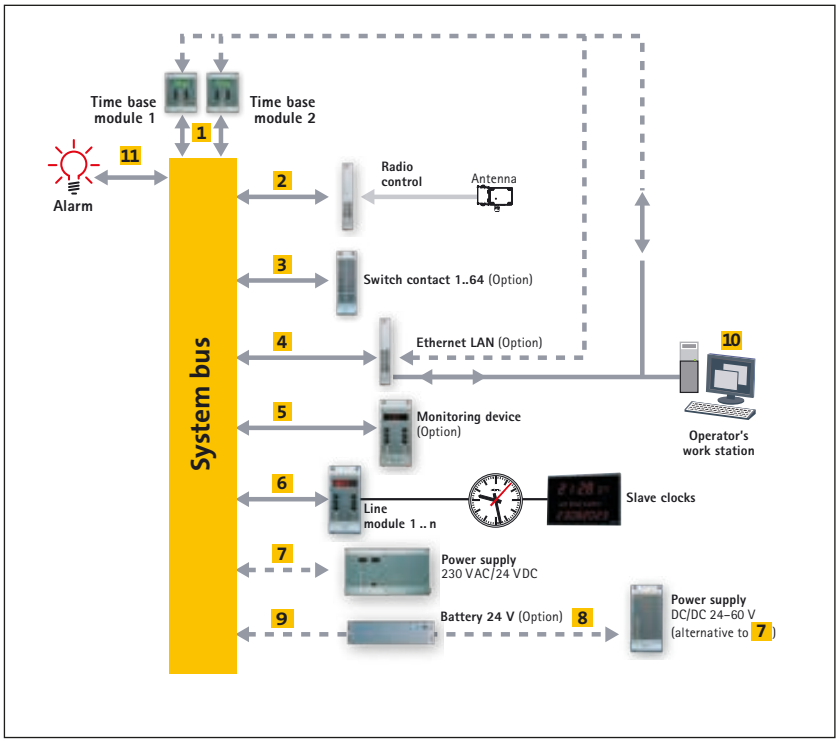
Operation of slave clocks is facilitated by a separate line module 6 for every clock line, with a variety of choices of pulse patterns and line monitoring capabilities. An additional monitoring device 5, measuring and indicating grounding resistance, line voltage and current on each line, is optional. Incoming error messages may be relayed through the earth-free contact 11 or monitored on a locally provided operator PC 10.
For actuation of optical or acoustic signals (to indicate start/end of work and/or break periods) up to 8 switching modules 3 may be integrated, with 8 earth-free contacts each.
Power is supplied to the Master Clock System by an internal mains adapter 7. A rechargeable battery 8 provides power in case of a mains disruption (emergency power). Alternatively, power may be provided from an external source 9.

Make your choice of desired component groups and modules on this and the following pages or call us – we will be pleased to offer you an equipment set that meets your specific demands!

Example shown: 19" 15 HU wall-mounted cabinet with modules and blanking plates

Programming and control of the Master Clock System are effected either at the time base module or directly at the individual modules.
Software and interface hardware for control from a locally installed PC 10, connected by LAN 4, are available as options.

Existing IT systems may be integrated either by LAN 4
The Master Clock System will be completely wired and mounted in a wall-mounted or free-standing cabinet at our factory. Modules will be arranged to customer's specification.



Free-Standing Cabinet 38 HU

Free-standing cabinet 38 HU interior height, with provisions for mounting of 19", 3 HU racks. Feet adjustable for height, lockable clear front door. All wiring connections accessible through rear wall, secured by a lockable metal door. Side panels are detachable with inside locks. Dimensions (W x H x D) cir. 600 x 1.800 x 650 mm, weight empty cir. 75 kg.

Type	Capacity	Item No.	€ each
19" free-standing cabinet, 38 HU (without content)	36 HU, 84 WU	11.**980**.138	**5,990.–**

Modular Master Clock System

Type series **980**

Wall-Mounted Cabinet, 12 HU, 15 HU

Wall mounted cabinet for 19" racks (3 HU each), interior height 12 HU or 15 HU. Lockable clear front door. The mounting frame is hinged to swing out and make all wiring connections accessible from behind. Dimensions (W x H x D) 12 HU: cir. 600 x 612 x 515 mm, 15 HU: cir. 600 x 746 x 515 mm, weight empty cir. 16 kg and 18 kg resp.

Type	Capacity	Item No.	€ each
19" wall-mounted cabinet, 12 HU (without content)	12 HU, 84 WU	11.**980**.112	**2,890.–**
19" wall-mounted cabinet, 15 HU (without content)	15 HU, 84 WU	11.**980**.115	**3,090.–**

19" Rack Element (component group carrier)

with integrated system bus

19" rack element (3 HU) for plug-in mounting of the required component groups. All individual modules are interconnected by the integrated system bus, each module's address being defined by its mounting position. The external connections of the individual modules are located at their rear faces. Mounting different types of modules on the same rack element is permissible. Unoccupied spaces must be covered by blanking plates.

Type	Capacity	Item No.	€ each
19" rack element, 3 HU, incl. system bus (without content)	3 HU, 84 WU	11.**980**.184	**995.–**
Blanking plate, 84 WU	3 HU, 84 WU	01.**980**.184	**149.–**
Blanking plate, 12 WU	3 HU, 12 WU	01.**980**.112	**72.–**
Blanking plate, 4 WU	3 HU, 4 WU	01.**980**.104	**49.–**

Time Base Module

The microprocessor-controlled time base module is used to set the operating parameters for the entire Master Clock System, it takes central control and monitors all system functions. Once programmed, the configuration will be saved in a flash memory in case of power disruptions. Change between summer to winter time is automatic by radio control through DCF77 or GPS and the respective remote antennas and/or receivers. Programming is effected by six buttons on the front panel or - optionally - by a locally installed PC or by modem from a network. Data interfaces and programming software for all established operating systems may be ordered as extras. Error warnings in case of malfunction or power disruption are signalled by the alarm output contact or the operator's PC. The two-line, 16 digit LCD display in the front plate indicates current (system) time and date and (multiple language) messages for operator guidance. LEDs indicate current status.
To enhance the security of operation, as a rule two time base modules (redundant system) are used in parallel.

Type	Dimensions	Item No.	€ each
Time base module	3 HE, 20 TE	11.**980**.211	**2,390.–**

Make your choice of desired component groups and modules on this and the following pages or call us – we will be pleased to offer you an equipment set that meets your specific demands!

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Modular Master Clock System

Type series
980

Make your choice of desired component groups and modules on this and the following pages or call us – we will be pleased to offer you an equipment set that meets your specific demands!

Receiver Module with Antenna

Capable of synchronising one or more time base modules, the receiver modules come complete with appropriate (DCF77 or GPS) remotable antennas. Antennas may be mounted indoors or outdoors (GPS outdoors only). LED indicator for quality of reception. Mounting device for antenna and 10 m connecting wire included (extension to several times this length possible, please call for information).

Type	Dimensions	Item No.	€ each
Receiver module DCF77, incl. antenna (IP55)	3 HU, 4 WU	11.**980**.221	**1,150.–**
Receiver module GPS, incl. antenna (IP65)	3 HU, 4 WU	11.**980**.231	**1,995.–**

Line Driver Module

Controlled by the superimposed time base module, the line driver modules administer switched power to the slave clock lines connected to them. The line voltage is either 24 V or 60 V (48 V on request) the line/pulse current is 1 A per module max., protected by an electronic fuse. The pulse mode may be chosen as:

- minute pulse, polarity alternating
- half-minute pulse, polarity alternating
- second pulse, polarity alternating
- PEWETA *DCFport24* telegram (24 V version only).

Module circuitry includes automatic recognition of too high and/or too low line voltage with automatic safety cut-off, at the cut-off or alarm threshold of your choice. In case of a malfunction of the time base module, the line driver modules automatically without delay take over control of their slave clock lines. The line driver modules may be programmed either through the time base module or by six buttons on their front plates. The slave clock line may be visually monitored by means of a 6-digit software monitor slave clock, the LED display of which is also used for operator guidance during programming. LEDs on the front panel enable instantaneous status recognition..

Type	Dimensions	Item No.	€ each
Line driver module, 1 A, line voltage 24 V	3 HU, 12 WU	11.**980**.324	**1,050.–**
Line driver module, 1 A, line voltage 60 V	3 HU, 12 WU	11.**980**.360	**1,150.–**

Monitoring Device

For extra security of operation, the monitoring device monitors grounding resistance, line voltage and line current of the connected line modules. Voltage and current of each line may be visually checked by means of the 6-digit digital LED display. If a line is grounded, an alarm will be triggered. LEDs on the front panel enable instantaneous status recognition.

Type	Dimensions	Item No.	€ each
Monitoring device	3 HU, 12 WU	11.**980**.390	**2,250.–**

Switching Module

The switching module offers 8 earth-free contacts for triggering optical and/or acoustic signals or alarms as well as on/off control of other systems (such as lighting or illumination). 4 of the 8 relay contact outputs are rigged for alternate function switching, the other four are for on/off switching only. On/off interval switching is programmable with intervals of 1 ... 59 seconds. A three-position switch with indicating LED per channel enables manual override of the automatic function to permanently on or off. Current capacity per contact is 6 A at 230 VAC. Up to 8 switching modules (8 x 8 = 64 channels or circuits) may be operated in one Master Clock System. LEDs on the front panel enable instantaneous status recognition.

Type	Dimensions	Item No.	€ each
Switching module, 8 free-floating switch contacts	3 HU, 8 TU	11.**980**.481	**1,295.–**

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Mains Power Supply Module

Power for the entire Master Clock System is supplied by the mains power supply. Input voltage is 230 VAC +/- 10 %. Output voltage is 24 VDC (rated voltage). Three output current capabilities are available: 5 A, 10 A and 20 A sustained load. The power supply is protected against short circuits and overloads. 2 LED digital displays indicate input and output voltage and current. Alarm threshold for low input voltage cut-off may be programmed. LEDs on the front panel enable instantaneous status recognition.

Type	Dimensions	Item No.	€ each
Mains power supply module 230 VAC/24 VDC – 5 A	3 HU, 48 WU	11.**980**.605	**1,790.–**
Mains power supply module 230 VAC/24 VDC – 10 A	3 HU, 48 WU	11.**980**.610	**2,390.–**
Mains power supply module 230 VAC/24 VDC – 20 A	3 HU, 48 WU	11.**980**.620	**4,190.–**

Battery Module

Lead-acid rechargeable batteries with immobilised electrolyte are used to supply power to the Master Clock System and the slave clock lines (duration determined by number of slave clocks connected). The batteries are protected against excessive input current by automatic circuit breakers. Two battery capacities are available: 20 Ah or 65 Ah. Maintenance-free Dryfit rechargeable batteries come complete with 19" rack element.

Type	Dimensions	Item No.	€ each
Battery module 24 V/20 Ah	3 HU, 84 WU	11.**980**.720	**2,490.–**
Battery module 24 V/65 Ah	6 HU, 84 WU	11.**980**.765	**4,790.–**

DC/DC Converter Module

If power to the Master Clock System is supplied from an external DC source, the 8 VDC converter module is needed to supply the individual modules. Input and output voltages are completely insulated against each other. Input is protected against wrong polarity and momentary power loss. Outputs are short-circuit-proof. The number of converter modules required is determined by the number of modules to be supplied.

Type	Dimensions	Item No.	€ each
DC/DC converter module 24 V/8 V/2 A	3 HU, 12 WU	11.**980**.824	**890.–**
DC/DC converter module 60 V/8 V/2 A	3 HU, 12 WU	11.**980**.860	**890.–**

Data Interface Module, Software

The Master Clock System may be expanded by an Ethernet interface to match the Master Clock System up with an Ethernet Local Area Network (LAN).
Thus, other peripheral equipment connected to the LAN will receive accurate time through the NTP protocol.

The following software for operating the Master Clock System is available:

- Operator software for programming various time bases
- Signalling software for the programming of switching module outputs.

Type	Dimensions	Item No.	€ each
Ethernet data interface module	3 HU, 4 WU	04.**980**.915	**2,095.–**
Operator software		05.**980**.932	**1,290.–**
Signalling software		05.**980**.933	**1,450.–**

Modular Master Clock System

Type series **980**

Make your choice of desired component groups and modules on this and the following pages or call us – we will be pleased to offer you an equipment set that meets your specific demands!

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Transmission Pattern of “Legal” Time
by the DCF77 low frequency radio transmitter

Transmission pattern of “legal” time

Duration of summer time

The DCF77 time signal transmitted from Mainflingen near Frankfurt/ Main is derived from nuclear decay timing devices operated and controlled by the Federal Establishment for Physics and Technology (PTB) at Braunschweig. Range of this radio signal is approximately 1,500 km. Beyond this range we recommend radio control by GPS (Global Positioning System).

Duration of Summer Time*
Beginning and End of summer time have been set for the following days – 01,00 world time:

	Start	End
2024	Sunday, March 31st	Sunday, October 27th
2025	Sunday, March 30th	Sunday, October 26th
2026	Sunday, March 29th	Sunday, October 25th

*for European Union countries

All information is without legal obligation · Subject to change without notice · Status as of January 1st, 2024.

The General Terms and Conditions of Sale
of PEWETA KG (GmbH+Co.), Hamburg

1. General
The following terms and conditions alone shall apply to all contracts for sale and contracts for work and materials concluded with us and to any offers made by us, if and to the extent that nothing to the contrary is agreed in writing. The general terms and conditions of the purchaser shall not apply, even if we do not expressly repudiate them.

2. Offers, product documentation and the acceptance of orders
Until such time as an order is confirmed in writing, any offers made by us shall remain non-binding on us. Only our written confirmation of the order shall stipulate the scope of the delivery or performance to be given. Any technical specifications and descriptions which are set out in offers or brochures or any other printed material and on the internet shall only be binding if they are designated as binding in the confirmation of the order.

We reserve the right to make any changes as the result of technical progress, as well as any optical changes, to the extent that such changes are not detrimental to the client and are reasonable.

Orders submitted by the purchaser shall only be deemed to have been accepted when they have been confirmed by us in writing, either by fax or by e-mail, by dispatch of the goods or by the issue of an invoice. Cancellations of and changes to orders shall only be valid after our written confirmation thereof has been received.

3. Prices and conditions of payment
To the extent that nothing is expressly agreed to the contrary, our ex works prices (EXW Incoterms 2020) from Hamburg shall apply, plus a fixed sum in respect of packaging and transport and value-added tax at the statutory rate. No shipping insurance cover is included in our prices.

The purchaser may only set off any counter-claims which it may have if such counter-claims are not disputed or if they have the force of *res judicata*. The same shall apply to the enforcement of any rights of retention.

4. Delivery periods and delivery conditions
Delivery periods shall be deemed to have been complied with if, by the date of the expiry of such delivery periods, the subject-matter of the delivery has been readied for dispatch ex works, or, should the dispatch of the goods be delayed for reasons which are attributable to the purchaser, if the goods' readiness for dispatch has been notified within the agreed delivery period.

Partial deliveries in accordance with an agreed delivery schedule and agreed volumes shall be permitted and may be invoiced separately.

Sale and delivery of the goods shall be subject to correct and punctual supply to ourselves.

5. Transfer of risk, damage during shipping and theft
Risk shall be transferred to the purchaser when the goods leave our warehouse or, if the purchaser has to pick up the goods himself and the due date has passed, whenever the goods' readiness for dispatch has been notified to the purchaser. The goods shall therefore in all circumstances be shipped at the risk of the purchaser. We shall not be liable for theft or for any damage which occurs during shipment.

6. The return of goods
Any return of goods which is not based on our statutory obligations shall be subject to our prior written consent and shall be in accordance with the following provisions: custom-made goods and goods which are not stocked by us as a matter of course may not be returned. Goods shall be taken back at their net invoice price excluding any ancillary costs (e.g. packaging or transport costs) minus a fee of 20% in respect of the inspection and processing of the goods which are taken back and any other costs associated with such return, subject to the condition that the goods are sent back to us shipping paid, in their original packaging and with their original value. The approval of any returned goods shall be a matter for us alone. Should any costs be incurred in connection with returning the goods to their original condition, the purchaser shall bear such costs.

7. Liability for defects
Any claims pursuant to visible defects shall only be permissible if they are notified to us in writing immediately and at the latest within a period of eight calendar days from the date on which the goods are received. Hidden defects must also be notified to us immediately and at the latest within a period of eight calendar days from the date of their discovery. In the event of a substantiated claim which is notified within the periods set out above, we may at our discretion and within a reasonable period repair the goods or deliver replacements free of charge. Apart from that the provisions of the law shall apply.

Claims in respect of defects in accordance with section 437 of the *Bürgerliches Gesetzbuch* [German Civil Code] shall be time-barred twelve months from the date of delivery. This provision shall not apply to claims for damages and in respect of the reimbursement of any expenses incurred. The statutory periods shall apply to such claims.

8. General liability
Claims for compensation of any nature which may be brought against us and our legal representatives and agents shall be excluded, in the absence of any intent or gross negligence or the breach of a material contractual obligation on our part.

In accordance with this provision, the breach of a material contractual obligation shall mean any obligation of which the observance makes the proper execution of the contract possible and on the observance of which the purchaser therefore may duly rely.

Liability for the gross negligence of our employees, to the extent that such employees are not management personnel, shall however be limited to compensation for typically foreseeable damage. This limitation of liability shall not apply to any breach of a material contractual obligation within the meaning of the previous paragraph.

The limitations and exclusions of liability set out above shall not apply to any liability pursuant to the *Produkthaftungsgesetz* [German Law on Product Liability] or to any domestic laws which implement the Product Liability Regulation or in the event of the death of, or physical injury to a person, or prejudice done to the health of a person.

9. Retention of title
We shall retain title to the delivered goods until payment is made to us in full of all outstanding amounts due pursuant to the commercial relationship.

It shall only be permissible to sell on the delivered goods in the normal course of business subject to a retention of title, and only if the right to receive payment pursuant to the on-sale is assigned to us. The purchaser shall be prohibited from pledging the goods or transferring them by way of security and shall also be prohibited from concluding any agreement in relation to an assignment. The purchaser must inform us immediately of any pledge or any other impairment of our rights by third parties. The purchaser hereby assigns to us in advance any rights which may accrue to it pursuant to the on-sale of our goods. We hereby accept such assignment. Should the value of the security given to us exceed the sums due to us by more than 10%, we undertake at our discretion and at the request of the purchaser to release the corresponding security.

10. Place of performance, place of jurisdiction and applicable law
The exclusive place of performance shall be Hamburg. The exclusive place of jurisdiction for all disputes with commercial parties or with persons who are not generally subject to the jurisdiction of a domestic German Court shall be Hamburg. At our discretion we may instigate proceedings against the purchaser before the Court which has jurisdiction over the location of its registered office or before the Arbitral Tribunal of the German Institution for Arbitration (DIS). In the event of arbitration proceedings, the location of the arbitration shall be Hamburg.

German law shall apply. The United Nations Convention on Contracts for the International Sale of Goods shall not apply. The Incoterms 2020 shall apply, as amended.

The general terms and conditions of sale

Prices, freight and handling

Prices	Packing, Freight, Insurance
All prices indicated in EURO (€), based on delivery ex works Hamburg (EXW, according to INCOTERMS 2020) and are on a recommendation basis without obligation only. Cost for packing, freight and insurance to be added to prices. Taxes and duties to be paid by buyer.	Cost for packing, freight and insurance to be agreed.

Changes
All details on scope of delivery, state-of-the-art, measurements and weight conform to our knowledge at the time of publishing. Prices and specifications are subject to change without notice.
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All previous prices become ineffective at that date.

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