

# LED Digital Clocks for In-Wall Mounting

with stopwatch mode (optional), ideal for surgical operating rooms

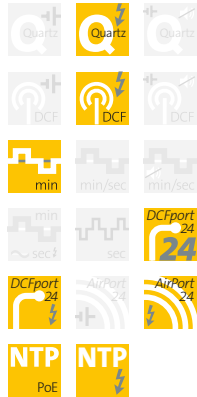


Indoor digital flush-mounted



83.490.550 shown

Type series  
**490**



91.490.551

Version with stainless steel spring-clips for mounting in stud-and-panel walls



83.490.553 -89

Double-sided clock with ceiling bracket, stainless steel V4A

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-sided clock,
- these clocks can be used in any demanding environment, such as the pharmaceutical, beverage and food industries, requiring accurate and dependable time information.

### 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.



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 66.

### 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

For flush **in-wall-mounting** we offer the following designs:

- with mounting frame, aluminium frame for mounting in conventional brick walls included in delivery shipment
- for stud-and-panel walls, stainless steel spring-clip device for flush mounting included

Optionally, at a surcharge, the clock can also be supplied with a V4A stainless steel case for **on-wall mounting**. The **double-sided type** consists of two individual clocks and a ceiling mounting bracket made of V4A stainless steel.

### 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<sup>2)</sup>. 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 4.

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 loss 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.	1,345.-
DCF77 radio controlled clock <sup>1)</sup>	230 VAC	52.490.	1,505.-
Slave clock, minute pulse 24 V	230 VAC	71.490.	1,435.-
Telegram slave clock, <i>DCFport24</i> , 24 V <sup>2)</sup>	<i>DCFport24</i>	81.490.	1,435.-
Telegram slave clock, <i>DCFport24</i> , 12/24 V	230 VAC	83.490.	1,435.-
RC telegram slave clock, <i>AirPort24</i> , with outage reserve	230 VAC	85.490.	1,545.-
NTP system clock (NTP client), synchronisation by LAN <sup>1)3)</sup>	PoE	91.490.	1,495.-
NTP system clock (NTP client), synchronisation by LAN <sup>1)4)</sup>	230 VAC	93.490.	1,525.-
<b>Mounting</b>			
with mounting frame		▲	
for stud-and-panel walls		550	
for on-wall mounting		551	
		552	+340.-

Clock type (incl. ceiling mounting bracket)	Operating voltage	Item No.	€ each
Quartz clock (in connection with PEWETA data bus RS485 master or slave option only)	230 VAC	42.490.553	3,090.-
DCF77 radio controlled clock <sup>1)</sup>	230 VAC	52.490.553	3,250.-
Slave clock, minute pulse 24 V	230 VAC	71.490.553	3,180.-
Telegram slave clock, <i>DCFport24</i> , 24 V <sup>2)</sup>	<i>DCFport24</i>	81.490.553	3,180.-
Telegram slave clock, <i>DCFport24</i> , 12/24 V	230 VAC	83.490.553	3,180.-
RC telegram slave clock, <i>AirPort24</i> , with outage reserve	230 VAC	85.490.553	3,290.-
NTP system clock (NTP client), synchronisation by LAN <sup>1)3)</sup>	PoE	91.490.553	3,240.-
NTP system clock (NTP client), synchronisation by LAN <sup>1)4)</sup>	230 VAC	93.490.553	3,270.-

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.-

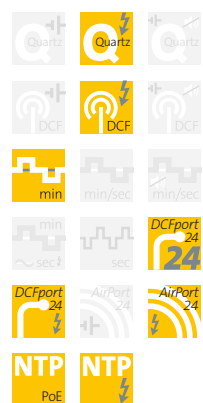
Options	Suffix	Surcharge € each
Operating voltage 12 VDC (instead of 230 VAC)	-70	none
Stopwatch mode (remote control unit is an extra)	-71	169.-
Amber (instead of red) LED digital display (57 mm digit height second only)	-78	on request
Green (instead of red) LED digital display (57 mm digit height second only)	-79	on request
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.-



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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 130 on).

### PEWETA *AirPort24*

PEWETA *AirPort24* slave clocks require an *AirPort24* transmitter or repeater respectively (see page 135).

### NTP

NTP system clocks require a PEWETA master clock (see from page 130 on) or an NTP time server (see page 137).

<sup>1)</sup>A remotable DCF77 receiving aerial (IP 68) is included in delivery shipment.

<sup>2)</sup>Limited number of clocks within a system/network.

<sup>3)</sup>NTP system clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.

<sup>4)</sup>NTP system clocks require a LAN connection. Appropriate hardware has to be supplied by customer.