

LED Digital Clocks for In-Wall Mounting

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



Indoor digital flush-mounted

Type series
490



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.



83.490.550 shown



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 126.

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 clocks²⁾. Existing 2-wire or 4-wire slave clock bus lines may be re-used for 12 VDC or PEWETA *DCFport24* versions.

¹⁾ A remutable DCF77 receiving aerial (IP 68) is included in delivery shipment.

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

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

⁴⁾ NTP slave clocks require a LAN connection. Appropriate hardware has to be supplied by customer.

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 126.

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 digital flush-mounted

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	42.490.550	1,120.–
DCF77 radio controlled clock ¹⁾	230 VAC	52.490.550	1,245.–
Slave clock, minute pulse 24 V	230 VAC	71.490.550	1,199.–
Slave clock, <i>DCFport24</i> pulse telegram 24 V ²⁾	<i>DCFport24</i>	81.490.550	1,199.–
Slave clock, <i>DCFport24</i> pulse telegram 12/24 V	230 VAC	83.490.550	1,199.–
Slave clock, <i>AirPort24</i> radio controlled telegram	230 VAC	85.490.550	1,249.–
Slave clock, NTP synchronisation by LAN (NTP-client), PoE ³⁾	PoE	91.490.550	1,240.–
Slave clock, NTP synchronisation by LAN (NTP-client) ⁴⁾	230 VAC	93.490.550	1,260.–

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	225.–
Bracket for ceiling mounting of two single clocks (stainless steel V4A)	01.490.503	225.–

Accessories	Item No.	€ each
Remote control w. mounting frame for in-wall mounting, stainless steel V4A	02.498.100	695.–
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	695.–
Hand-held remote control, stainless steel V4A	02.498.102	695.–

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	59.–
Green (instead of red) LED digital display (57 mm digit height second only)	-79	115.–
Date indication alternating with time indication	-81	on request
PEWETA data bus RS485 master (output)	-82	98.–
PEWETA data bus RS485 slave (input)	-83	98.–
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.–

Type series 490



DCF77 radio controlled clocks
DCF77 radio controlled clocks of this type series will be supplied including a remutable 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 184 on).

PEWETA *AirPort24*
PEWETA *AirPort24* slave clocks require an *AirPort24* transmitter or repeater respectively (see page 189).

NTP
NTP slave clocks require an NTP time server (see page 191).