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.

Indoor
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490

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**	**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.–**

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 178 on).

PEWETA *AirPort24*
PEWETA AirPort24 slave clocks require an AirPort24 transmitter or repeater respectively (see page 183).

NTP
NTP system clocks require a PEWETA master clock (see from page 178 on) or an NTP time server (see page 185).

[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.

All prices are subject to change without notice, packing and shipping cost (see page 187) as well as VAT for deliveries within Germany added. Prices shown as of January 1st, 2025. If you have any questions or require additional information, please contact us, we will gladly give advice.