

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 126.

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 V AC 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 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.

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 V AC
	optional operating voltage for digital display	12 V DC
	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 V AC ¹⁾	52.480.320	1,445.-	52.480.330	1,445.-
Slave clock, minute pulse 12...60 V	71.480.320	1,245.-	71.480.330	1,245.-
Slave clock, minute/second pulse 12/24 V	72.480.320	1,450.-	72.480.330	1,450.-
Slave clock, minute/second pulse 12/24 V, extra low noise motion	73.480.320	1,595.-	73.480.330	1,595.-
Slave clock, min. pulse 12/24 V, synch. second hand 230 V AC/50 Hz	74.480.320	1,635.-	74.480.330	1,635.-
Slave clock, second pulse 12/24 V, with creeping minute hand	75.480.320	1,610.-	75.480.330	1,610.-
Slave clock, DCFport24 pulse telegram 12/24 V	81.480.320	1,275.-	81.480.330	1,275.-
Slave clock, AirPort24 radio controlled telegram, mains operated 230 V AC	85.480.320	1,433.-	85.480.330	1,433.-
Slave clock, NTP synchronisation by LAN (NTP client), PoE ²⁾	91.480.320	1,440.-	91.480.330	1,440.-

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	249.-

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
Front glass of analog clock treated for low reflectivity	-49	39.-
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 slave clocks of "PoE" type require a PoE (Power over Ethernet) power supply. Appropriate hardware has to be supplied by customer.



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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 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).