PROFIL 930

DESCRIPTION

- Analogue display clock.
- Hour-Minute or Hour-Minute-Second display depending on the model.
- ABS casing IP 40, IK02 (indoor use).
- Optimal viewing distance: 20m.
- Poly methacrylate protective crystal (PMMA).
- Front casing colours: black, white, aluminium paint or chrome-plated metal.
- Dial markings: Arabic figures or minute notches or DIN.
- Wall bracket with optional locking system.

STANDARDS

- Standard EN 50081-1: Generic Emissions.
- Standard EN 50082-1 and 50082-2: Generic Immunity.
- Standard EN 55022 class B: Information Technology Equipment– Radio disturbance characteristics.
- Standard EN 60950: Information Technology Equipment - Safety.
- Radio Standard EN 300-220-3 and EMC Standard EN 301-489-3 for Radio Equipment.
- Standard NFS 87-500 A: AFNOR and DHF Time Distribution Protocols.

TECHNICAL FEATURES

	Movement	Power supply	Operating temperatures	Weight
	Quartz 1.5 V	1.5 V LR6 battery	- 5°C to +50°C	0.7 kg
IMPULSIONNEL	24V minute parallel impulse	-	- 10°C to +50°C	0.9 kg
IMPULSIONNEL	24V second parallel impulse	-	- 10°C to +50°C	0.9 kg
IMPULSIONNEL	½ minute serial impulse	-	- 10°C to +50°C	0.9 kg
AFNOR	AFNOR	6 to 24 VDC	- 5°C to +50°C	0.9 kg
NTP	NTP NTP (silent, sweeping second)	Power over Ethernet, Class 0 device, 2W maximum	- 5°C to +50°C	0.9 kg
DCF	DCF Radio	1.5V LR6 battery	- 5°C to +50°C	0.7 kg
DHF	DHF transmitter	2x1.5V LR6 batteries	- 5°C to +50°C	0.9 kg
DHF	DHF TBT	6 to 16 VDC	- 5°C to +50°C	0.9 kg

REFERENCES

Hour-Minute	Hour-Minute-Second	
-	981 1xy	Quartz 1.5V
981 5xy	-	24V minute impulse
-	981 4xy	24V second impulse
981 6xy	-	½ minute serial impulse
982 8xy	982 9xy	AFNOR
982 Fxy	982 Gxy	NTP
-	982 Hxy	NTP (silent)
-	981 3xy	DCF radio
982 2xy	982 3xy	DHF transmitter
982 4xy	982 5xy	DHF TBT

x and y: refer to the illustrations.

Dials models (x):

1 = Arabic figures 

2 = Minute notch 

3 = DIN 

Front casing colours (y):

1 = White 

2 = Black 

5 = Aluminium 

3 = Chrome 

Réf.: 643191T 04/17

MOVEMENTS AND SYNCHRONISATION

• Quartz 1.5V
The clock is completely autonomous, the time information is provided by its own time system. The operating temperature range for these clocks is -25°C to +50°C when using Lithium batteries.

• 24V minute impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every minute by the master clock.

• 24V second impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every second by the master clock.

• 1/2 minute serial impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every ½ minute by the master clock.

• AFNOR
The coded time distribution consists in transmitting a complete time message every second: the time on the receiver is automatically and immediately set after connection to the clock line.
The AFNOR coded time does not interfere with any other transmissions, and is insensitive to other electrical interference.
Consumption TBT: 10 mA (6 VDC), 8 mA (24 VDC).

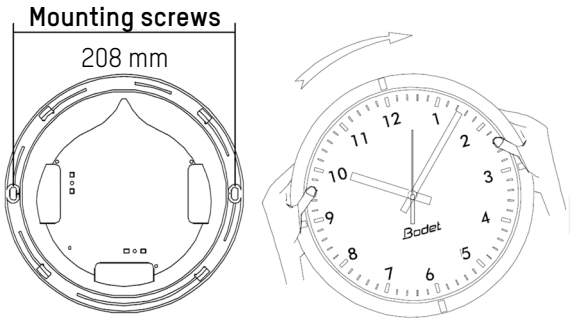
• Network Time Protocol (NTP)
Slave clocks are connected to the Ethernet network and powered by PoE (Power over Ethernet).
The time is synchronised by the time server or the master clock over the Ethernet network in unicast, multicast or DHCP mode.

• Network Time Protocol (NTP) silent
Slave clocks are connected to the Ethernet network and powered by PoE (Power over Ethernet).
The time is synchronised by the time server or the master clock over the Ethernet network in unicast, multicast or DHCP mode.
The second hand's movement is continuous. The advantage of this clock is its very low noise level (<20dB at 1 metre).

• DCF radio
The clock is completely autonomous. The DCF radio synchronised movement provides absolute accuracy and automatic summer/winter changeovers.

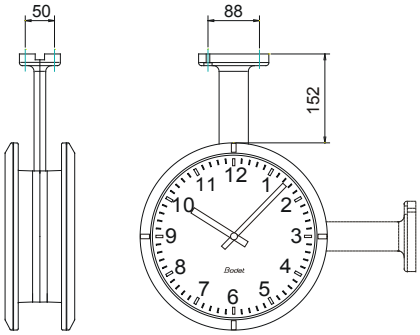
• DHF
The DHF clocks pick up the time signal sent by the master clock via a radio signal and synchronise automatically. If radio reception is poor, the clocks keep time thanks to their own time systems.
Consumption TBT: from 15mA at 6V to 8mA at 12V to 7mA at 16V.

Single-sided wall support



Once the the bracket (wall or double-sided) is installed, turn the clock a quarter turn in the clockwise direction so that the clock is in the correct position.

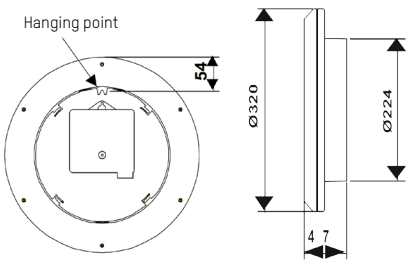
Double-sided bracket mounting



MOUNTING ACCESSORIES

- **981 001**..... Double-sided bracket
- **981 002**..... Short double-sided bracket
- **981 006**..... Secure wall mouning bracket for single-sided clock

- **938 914**..... 230V recess mounting power supply for TBT clock
- **938 916**..... 230V plug-in power supply for TBT clock



Dimensions in mm

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PROFIL 940

DESCRIPTION

- Analogue display clock.
- Hour-Minute or Hour-Minute-Second display depending on the model.
- ABS casing IK02, indoor model IP40, outdoor model IP53
- Optimal viewing distance: 35m.
- Polymethacrylate protective crystal (PMMA).
- Front casing colours:
  - indoor model: white, black, aluminium paint or chrome-plated metal,
  - outdoor model: white.
- Dial models: Arabic figures or minute notches or DIN.
- Wall bracket with optional locking system for indoor model, included for outdoor models.

STANDARDS

- Standard EN 50081-1: Generic Emissions.
- Standard EN 50082-1 and 50082-2: Generic Immunity.
- Standard EN 55022 class B: Information Technology Equipment– Radio disturbance characteristics.
- Standard EN 60950: Information Technology Equipment - Safety.
- Standard NFS 87-500 A: AFNOR and DHF Time Distribution Protocols.

WIRED MODELS

	Movement	Power supply	Operating temperature		Weight
			Indoor	Outdoor	
	Quartz 1.5 V	1.5 V LR6 battery	-5°C to +50°C	-10°C to +50°C	2.1 kg
	1.5V serial impulse	230 VAC*	-10°C to +50°C	-10°C to +50°C	2.1 kg
IMPULSIONNEL	24V minute impulse		-10°C to +50°C	-20°C to +50°C	2.5 kg
IMPULSIONNEL	24V second impulse		-10°C to +50°C	-20°C to +50°C	2.5 kg
IMPULSIONNEL	½ minute serial		-10°C to +50°C	-20°C to +50°C	2.5 kg
AFNOR	AFNOR TBT	6 to 24 VDC	-5°C to +50°C	-20°C to +50°C	2.1 kg
NTP	NTP	Power over Ethernet, Class 0 device, 2W maximum	-5°C to +50°C	-20°C to +50°C	2.1 kg

*230V AC power supply only via a time setting control box (ref: 933007).

REFERENCES

Hour-Minute Indoor model	Hour-Minute Outdoor model	Hour-Minute-Second Indoor model	Hour-Minute-Second Outdoor model	
-	-	**983 1xy**	**984 1xy**	Quartz 1.5V
-	**984 2xy**	-	-	1.5V serial impulse
983 5xy	**984 5xy**	-	-	24V minute impulse
-	-	**983 4xy**	-	24V second impulse
983 6xy	**984 6xy**	-	-	1/2 minute serial impulse
985 8xy	**984 8xy**	**985 9xy**	-	AFNOR TBT
985 Fxy	-	**985 Gxy**	**984 Fxy**	NTP

x and y: refer to the illustrations.

Dials models (x):

1 = Arabic figures 

2 = Minute notch 

3 = DIN 

Front casing colours (y):

1 = White 

5 = Aluminium 

2 = Black 

3 = Chrome 

Réf.: 643201ZF 04/17

MOVEMENTS AND SYNCHRONISATION

• Quartz 1.5V
The clock is completely autonomous, the time information is provided by its own time system. The operating temperature range for these clocks is -25°C to +50°C when using Lithium batteries.

• 1.5V serial impulse (for BT Chrono)
Slave clocks are connected to a radio synchronisation box (BT Chrono) that generates electrical impulses every minute. The operating temperature range for these clocks and for the box is -10°C to +50°C.

• 24V minute impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every minute by the master clock.

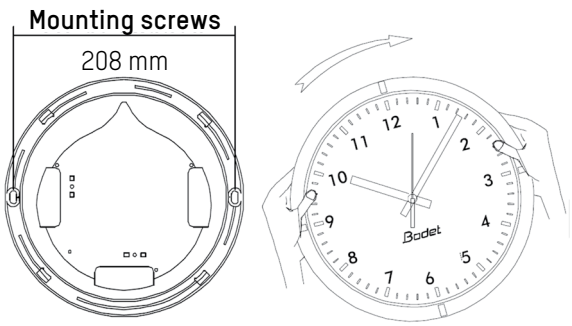
• 24V second impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every second by the master clock.

• 1/2 minute serial impulse
Slave clocks are connected to a distribution line and activated through electrical impulses sent every ½ minute by the master clock.

• AFNOR TBT
The coded time distribution consists in transmitting a complete time message every second: the time on the receivers is automatically and immediately set after connection to the clock line.
The AFNOR coded time does not interfere with other transmission, and is insensitive to other electrical interference.
Consumption TBT: 10 mA (6 VDC), 8 mA (24 VDC).

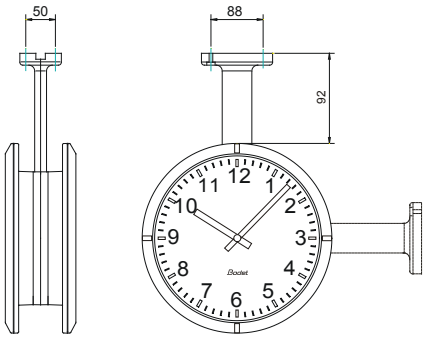
• Network Time Protocol (NTP)
Slave clocks are connected to the Ethernet network and powered by PoE (Power over Ethernet).
The time is synchronised by the time server or the master clock over the Ethernet network in unicast, multicast or DHCP mode.

Single-sided wall support



Once the the bracket (wall or double-sided) is installed, turn the clock a quarter turn in the clockwise direction so that the clock is in the correct position.

Double-sided bracket mounting

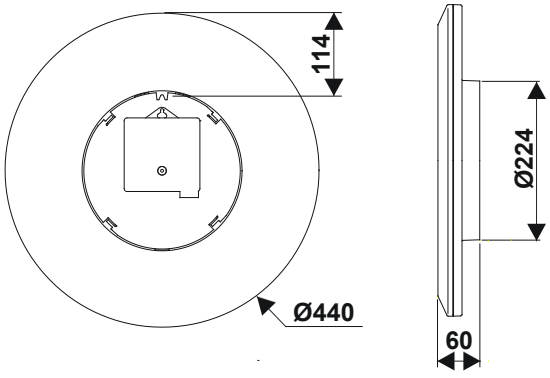


MOUNTING ACCESSORIES

- **981 001.....** Double-sided bracket
- **981 002.....** Short double-sided bracket
- **981 006.....** Secure wall fixing bracket for single-sided clock
- **981 008.....** Secure wall fixing bracket for Profil DHF/230V
- **981 009.....** Double-sided bracket for Profil DHF/230V

- **938 914.....** 230V recess mounting power supply for TBT clock
- **938 916.....** 230V plug-in power supply for TBT clock

Hanging point



Dimensions in mm

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