Hour and minute hand clock

Analogue clock

Profil 960

Description:

- ▶ Indoor or outdoor illuminated and weatherproof clock with analogue display.
- Hour minute or hour minute second display, depending on the model.
- ABS white casing.
- ▶ Optimal viewing distance : 60 metres.
- ► Safety glass lens.
- ▶ Dial models: Arabic figures or minute notches.
- ▶ Models: DHF, quartz, 24V second, 24V minute, AFNOR, radio synchronised FI, NTP Supervised.
- ► Illumination: low power consumption LED.

Technical features:

► As options: anti-vandalism polycarbonate crystal.



Movement		Power supply	Operating temperature	ΙP	IK	Display	Weight	Dwg
Profil 960I SF	Quartz with remote keyboard	230 V** 50Hz ±10%	-25°C to +70°C	40	08	НМ	7,7 kg	1
	24V minute		-25°C to +70°C	40	08	НМ	7,7 kg	1
	24V ½ minute		- 25°C to +70°C	40	08	НМ	7,7 kg	1
	serial ½ minute		- 25°C to +70°C	40	08	НМ	7,7 kg	1
	AFNOR	6 to 24V AC or DC	-25°C to +70°C	40	08	НМ	8,1 kg	1
	NTP	PoE	-25°C to +70°C	40	08	НМ	7,5 kg	1
	DHF	2x1,5V LR14 batteries	- 5°C to +50°C	40	08	НМ	7,5 kg	1
	DHF TBT	230 V** 50Hz ±10%	- 5°C to +50°C	40	08	НМ	7,5 kg	1
	Quartz with remote keyboard Led	230 V** 50Hz ±10%	- 25°C to +70°C	53	08	НМ	16,5 kg	2
E SF	24V minute Led	230 V** 50Hz ±10% *	-25°C to +70°C	53	08	HM/HMS	16,5 kg	2
360E	serial ½ minute	230 V** 50Hz ±10%	- 25°C to +70°C	53	08	HM/HMS	15,2 kg	2
Profil	AFNOR + radio FI Led	230 V** 50Hz ±10%	-25°C to +70°C	53	08	HM/HMS	17,2 kg	2
"	NTP	PoE or 230 V** 50Hz ±10%	-25°C to +70°C	53	08	HM/HMS	14.7 kg	2
ofil 960E DF	Quartz with remote keyboard Led	230 V** 50Hz ±10%	- 25°C to +70°C	43	08	НМ	29.4 kg	3
	24V minute Led	230 V** 50Hz ±10% *	- 25°C to +70°C	43	08	HM/HMS	29.4 kg	3
	serial ½ minute	230 V** 50Hz ±10%	- 25°C to +70°C	43	08	HM/HMS	25 kg	3
	AFNOR + radio FI Led	230 V** 50Hz +10%	-25°C to +70°C	43	08	HM/HMS	30 kg	3

SF= single sided, DF= double sided, I=Indoor, E=Outdoor, HM = hour-minute, HMS= hour-minute-second. Drawing: other side of the page.

PoE or 230 V'

NTP

-25°C to +70°C





Swivel arm system for outdoor Profil 960E Single Sided



LED-illumination detail

Consumption	SF	DF	
LED lighting	20W	28W	

Profil 960 references	960 Indoor SF	960E SF led	960E DF led
▶ ½ minute 24V	933 11*1		
 Quartz with remote keyboard 	933 211	934 26**1	934 26**6
► 24V Minute	933 511	934 561	934 566
№ ½ minute série	933 611		
▶ AFNOR HM + radio FI		934 961	934 966
▶ AFNOR HMS + radio FI		934 061	934 066
► AFNOR TBT	933 811		
▶ DHF pile	933 B11		
► DHF 230 VAC	933 C11		
▶ NTP PoE Multicast	933 D11		
► NTP 230V HM		934 M61	934M66
► NTP 230V HMS		934 N61	934N66



HM/HMS





for clocks with synchronous second hand. ** 230V AC power supply only via a time setting control box (réf : 933006).

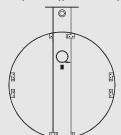
^{*} The next to last figure of the reference corresponds to the dial type: 1= figure, 2= notch, 3=DIN. Example: 933111= figure dial, 933121=notch dial.

Analogue clock

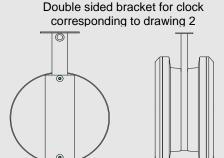
Analogue clock

Profil 960

Double sided bracket for clock corresponding to drawing 1



A double sided clocks consist of 2 single sided clocks + a double sided bracket.



Movements and synchronisation:

Quartz movement with remote keyboard

▶ The clock is totally independent. The time information comes from its own time basis.

DHF (norm NF S 87-500C)

▶ The DHF clocks pick up the radio signal and get automatically synchronised. If radio reception is poor, they keep on working on their own time basis.

Radio FI

► The clock is totally independent. The France Inter radio synchronized movement brings absolute accuracy and automatic summer/winter changeovers.

AFNOR + radio FI

- ► The coded time distribution consists in transmitting a complete time message each second: the setting on time of the receivers is realised automatically and speedily as soon as they are connected on the clock line.
- ► The AFNOR coded time does not transmit interference and is insensitive to other electrical interference.
- The radio synchronisation permits to display the time with perfect accuracy and to make automatically summer/winter time changeover.

24V minute impulse

► The receiver clocks are connected to a distribution line and activated by means of electrical impulses transmitted every minute by the master clock.

1/2 minute serial impulse slave movement

► Slave clocks are connected to a distribution line and activated through electrical impulses sent every ½ minute by the master clock.

NTP

The slave clocks connect to the Ethernet network from which they get their PoE power supply (consumption: 25 mA at 48 V DC). The time synchronisation is accomplished by the server or the master clock using the NTP protocol: NTP Supervised: unicast, multicast and by DHCP.

Norms (depending on the models):

- ► NF EN50081-1: generic emission standard.
- ► NF EN50082-1 and 50082-2: generic immunity standard.
- ▶ NF EN55022 class B: limit and methods of measurement of radio disturbance characteristics of information technology equipment.
- ► NF EN60950: Safety of information technology equipment.
- ► NF EN300-220-3: radio equipment standard.
- ▶ NF EN301-489-3: EMC standard for radio equipment
- ► NF S 87-500 C.

Mounting Accessories:

- ► Double sided bracket corresponding to drawing 2 933 001
- ► Double sided bracket corresponding to drawing 1 933 003
- ► Back ring for Profil 960i 933 004
- ► Back casing + hinged arm system for Profil 960i 933 005
- ► Remote keyboard 933 006
- ► BT radio FI 230V 933 010
- ► BT radio DCF 230V 933 011





