### **DESCRIPTION**

- Indoor clock with liquid crystal display (LCD).
- Hour display fixed or alternate with date, temperature...
- Extra flat casing.
- Optimal viewing distance 60 metres (Height of digits 14cm), angle of vision 160°.
- Integrated temperature probe.
- 3 casing colours: aluminium, white, burgundy.
- Versions: independent quartz, radio synchronised DCF, DHF receiver, impulse slave movement, IRIG B/AFNOR coded time receiver or NTP receiver.



## **STANDARDS**

- NF EN50081-1: generic emission standard.
- NF EN50082-1: generic immunity standard.
- NF EN55024: immunity standard of information technology equipment.
- NF EN60950: safety of information technology equipment.

### GENERAL FEATURES

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Eco function	Providing energy savings through switching off display between 23.00 and 6.00.
• Operation	Silent.
• Display mode	12 or 24 h.
• Temperature display	-40°C to +85°C or -40°F to +185°F.
• Display	Selection °C or °F in the menu. Display resolution: 1°C. Accuracy: ±0.5°C. Offset adjustment, possible from -9.5° to +9.5° in 0.5° steps.
• Time change	Pre-programmed automatic summer/winter time changeover and perpetual calendar with multi-time zones.
• Data saving	7 days.
• Accuracy of the time quartz base	0.2 second/day (adjustable).
Absolute time accuracy	Radio synchronised models.
• 2 buttons	Programming and time setting.
• Indicator	Low battery.
NTP Synchronisation	Unicast, multicast and by DHCP.
Antenna of synchronisation	Multidirectional radio antenna to catch the time whatever the clock position is.
MECHANICAL FEATURES	

### MECHANICAL FEATURES

• Construction	ABS plastic casing, IP40, IK02.
• Window	Glass.
Operating temperature	0 to 50°C.
Humidity	80% at 40°C.
• Weight	2 Kg.

## **ELECTRICAL FEATURES**

Power supply	- Models AFNOR receiver, DHF, 24V minute impulse receiver :
	ELV 24VDC or 2 piles type LR14.
	- Model NTP : PoE (Power Over Ethernet).
• Consumption	Models AFNOR, DHF, DCF = 0.2mA (Class III)
	Model AFNOR very low voltage = 10mA (Class III)
	Model NTP = 2.5W (Class III PoE)

#### REFERENCES

• 938 611A	Independent quartz
• 938 623	Radio synchronised DCF
• 938 631	24V impulse or IRIG B/AFNOR receiver
• 938 632	24V impulse or IRIG B/AFNOR receiver (very low voltage)
• 938 641	DHF radio receiver
• 938 643	DHF radio receiver (very low voltage)
• 938 673	NTP PoE receiver
Add to the reference. A for alumin	ium casing colour. B for white. D for burgundy.

3 casing colours: aluminium,







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#### **DISPLAY MODES**

Hour only:

- 12 h mode => 1
- 24 h mode => 2





or alternate with:

- Day-Month (31:12) => 3
- Month-Day (12:31) => 4
- Temperature => 5
- Year => 6
- Week number => 7











#### MOVEMENTS AND SYNCHRONISATION

#### • Quartz movement

The clock is totally independent, the time information comes from its own time basis. Automatic summer/winter time changeover.

#### DHF movement

The clock is radio-synchronised by a DHF transmitter. Automatic summer/winter time changeover.

#### • DCF Radio synchronised movement

The clock is independent, the time information comes from its own time basis which is rectified, in case of drift, by comparing it to the DCF transmitter signal.

The radio synchronisation permit to display the time with perfect accuracy.

Automatic summer/winter time changeover.

#### • IRIG B/AFNOR coded time receiver

The coded time distribution consist 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 IRIG B/AFNOR coded time does not transmit interference and is insensitive to other electrical interference.

#### • 24V minute impulses receiver movement

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

#### • NTP PoE receiver

The slave clocks are connected to the network Ethernet through IP addressing. The time synchronization is distributed from

primary servers towards the network or master clock with unicast, multicast or by DHCP models. The NTP server must have a transmission (Poll) period of less than 128 seconds.

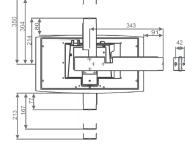


Recessed mounting





On double sided bracket



#### **ACCESSORIES**

• 202 271	Wall support	(supplied)

• 938 902..... Table or shelf bracket

• 938 906...... Support for recessed mounting

• 938 901..... Double sided bracket for ceiling mounting

order the fixing mode (wall or ceiling) and the length between the top of the clock and the fixing point).

• 938 907..... Support for low voltage power supply

• 938 914..... Embedded TBT (very low voltage) power supply (Capacity: 20 clocks)

• 938 916...... Wall plug-in TBT power supply (capacity: 20 clocks)

Dimensions in mm

