

# Digital clock

## Digital clock

Opalys Date

### Description :

- ▶ Indoor clock with backlit liquid crystal display (LCD)
- ▶ Hour and multilingual date display, with temperature, day countdown.
- ▶ Extra flat casing.
- ▶ Optimal viewing distance 25 metres (Height of digits 5cm), angle of vision 160°.
- ▶ Integrated temperature probe.
- ▶ Casing colour: aluminium.
- ▶ Versions: independent quartz, radio synchronised (FI or DCF), DHF receiver, impulse slave movement, IRIg B/AFNOR coded time receiver or NTP receiver.



### Technical features:

- ▶ ABS casing, IP40, IK02.
- ▶ Multifunctional display.
- ▶ Display in a choice of 18 languages.
- ▶ 12 or 24 hour display mode.
- ▶ Temperature display from -25°C to +70°C or -13°F to +158°F.
- ▶ 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.
- ▶ Pre-programmed automatic summer/winter time changeover and perpetual calendar with multi-time zones.
- ▶ Permanent data savings.
- ▶ Accuracy of the time quartz base : 0.2 second/day.
- ▶ Silent operation.
- ▶ Programming and time setting through 2 buttons.
- ▶ Power supply :
  - Models AFNOR coded time receiver, wireless DHF, independent/24V minute impulse receiver : 230VAC ± 10%, 50/60 Hz.
  - Model NTP : PoE (Power Over Ethernet).
- ▶ Eco function providing energy savings through switching off display between 23.00 and 6.00.
- ▶ PoE consumption: 7.5 W maximum; Class 0 device.
- ▶ NTP Synchronization : unicast, multicast and by DHCP.
- ▶ Operating temperature: from 0 to 50°C.
- ▶ Humidity: 80% at 40°C.
- ▶ Weight: 1,4 Kg.

### Multifunctional clock:

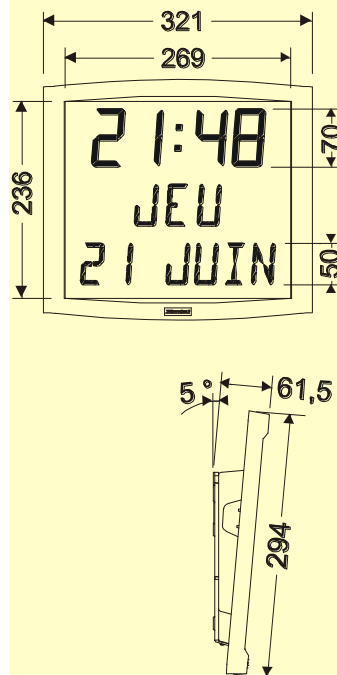
Possibility for fixed or alternate display on the central display line :

- ▶ Day of the week multilingual.
- ▶ Ambient temperature in Celsius or Fahrenheit (limited to 99°).
- ▶ Day number (Julian).
- ▶ Week number.
- ▶ Second counter.

Possibility for fixed or alternate display on the bottom display line:

- ▶ Multilingual date.
- ▶ Numerical date.
- ▶ Site or city name or a word (up to 7 characters).
- ▶ Day countdown.

### Dimensions in mm



### Opalys Date references

- |   |          |
|---|----------|
| ▶ Radio synchronised France Inter                     | 938 222A |
| ▶ Radio synchronised DCF                              | 938 224A |
| ▶ Slave movement on impulses or IRIg B/AFNOR receiver | 938 233A |
| ▶ DHF radio receiver                                  | 938 242A |
| ▶ NTP PoE receiver                                    | 938 272A |



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Table bracket



Double-sided bracket

## ***Movements and synchronisation:***

### DHF movement

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

### FI or 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 FI or 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.

## ***Norms:***

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



## ***Options:***

- |   |         |
|---|---------|
| ▶ Wall support (supplied with each clock)   | 202 271 |
| ▶ Table support   | 938 902 |
| ▶ Double sided bracket for wall or ceiling mounting   | 938 901 |
| ▶ Double sided bracket for wall or ceiling mounting (long length)   | 938 905 |
| ▶ Single or double sided bracket specific length for wall or ceiling mounting   | 938 908 |
| (Please specify on the order the fixing mode (wall or ceiling) and the length between the top of the clock and the fixing point). |         |

