

# Technical features

## Digital clock

Opalys Ellipse

### Description :

- ▶ Indoor clock with backlit liquid crystal display (LCD)
- ▶ Hour and multilingual date display, with temperature
- ▶ Extra flat casing.
- ▶ Readability 20 metres, angle of vision 160°.
- ▶ External power supply 230V or PoE (Power over Ethernet) for NTP version.
- ▶ Versions : independent quartz, radio synchronised (FI or DCF), DHF receiver, impulse slave movement, IRIG B/AFNOR coded time receiver or NTP receiver.



### Technical features:

- ▶ Multifunctional display.
- ▶ Display in a choice of 12 languages.
- ▶ 12 or 24 hour display mode.
- ▶ 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.
- ▶ ABS casing, IP40, IK02.
- ▶ Silent operation.
- ▶ Programming and time setting through 2 buttons.
- ▶ Eco function providing energy savings through switching off display between 23.00 and 6.00.
- ▶ Casing colour: aluminium.
- ▶ 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 bottom display line :

- ▶ Multilingual date.
- ▶ Numerical date.
- ▶ Indoor ambient temperature.
- ▶ Day number (Julian) and week number.
- ▶ Second counter.
- ▶ Site or city or company name or message (up to 7 characters).



### Opalys Ellipse references

- |   |          |
|---|----------|
| ▶ Radio synchronised France Inter                     | 938 322A |
| ▶ Radio synchronised DCF                              | 938 324A |
| ▶ Slave movement on impulses or IRIG B/AFNOR receiver | 938 333A |
| ▶ DHF radio receiver                                  | 938 342A |
| ▶ NTP PoE receiver                                    | 938 362A |



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Table support



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.

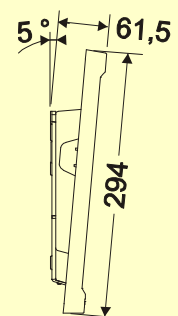
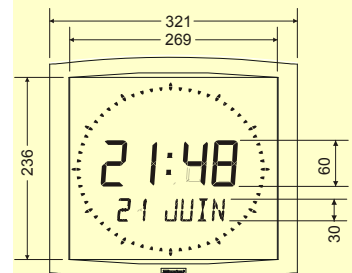
#### NTP PoE receiver

- ▶ A SNTP time server sends UTC time periodically on the Ethernet network. The clocks pick up the time messages, apply the relevant time zone and set themselves automatically to local time.  
PoE power is supplied to the clock through the network via the RJ45 plug.

### **Norms:**

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

### **Dimensions in mm**



### **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).

