

# Technical features

## Digital clock

**Cristalys Ellipse**

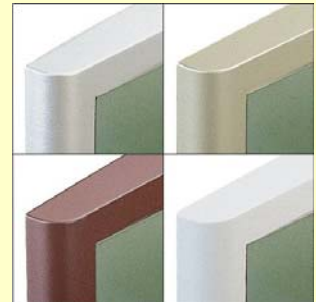
### **Description :**

- ▶ Indoor clock with liquid crystal display (LCD).
- ▶ Hour and multilingual date display, with temperature.
- ▶ Extra flat casing.
- ▶ Readability 20 metres, angle of vision 160°.
- ▶ Power supply with 4 LR 14 batteries for an autonomy over 3 years.
- ▶ Versions: independent quartz, radio synchronised FI or DCF, DHF receiver, slave movement on impulses or IRIG B/AFNOR coded time receiver.



### **Technical features :**

- ▶ Eco function providing energy savings through switching off display between 23.00 and 6.00.
- ▶ 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 saving.
- ▶ Accuracy of the time quartz base : 0,2 second/day.
- ▶ ABS casing, IP40.
- ▶ Silent operation.
- ▶ Programming and time setting through 2 buttons.
- ▶ Absolute time accuracy with optional radio synchronisation.
- ▶ Optional very low voltage power supply from 6 to 24V AC/DC (or external 230V).
- ▶ Operating temperature : from 0 to 50°C.
- ▶ Humidity: 80% at 40°C.
- ▶ Weight: 1,4 Kg.

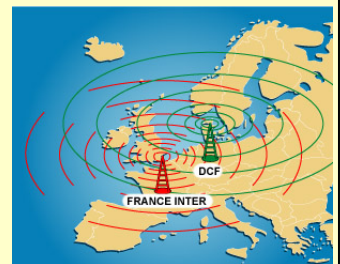


**4 casing colours:  
aluminium,  
champagne,  
burgundy, white**

### **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).



**France Inter or  
DCF transmitter**

### **Cristalys Ellipse references**

- |  |         |
|--|---------|
| ▶ Independent quartz   | 938 311 |
| ▶ Radio synchronised France Inter  | 938 321 |
| ▶ Radio synchronised DCF   | 938 323 |
| ▶ Slave movement on impulses or IRIG B/AFNOR receiver                    | 938 331 |
| ▶ Slave movement on impulses or IRIG B/AFNOR receiver (very low voltage) | 938 332 |
| ▶ DHF radio receiver   | 938 341 |
- Add to the reference:  
A for aluminium casing colour, B for white, C for champagne, D for burgundy.



# Technical features .

## Digital clock

## Cristalys Ellipse



Cristalys Ellipse  
on table support



Cristalys Ellipse  
on double sided  
bracket

### Movements and synchronisation:

#### Quartz movement

- ▶ The clock is totally independent, the time information is provided by 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.

#### FI or DCF Radio synchronised movement

- ▶ The clock is independent, the time information is provided by its own time basis which is corrected, in case of drift, by comparison 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 quickly as soon as they are connected to the time distribution line.
- ▶ The IRIG B/AFNOR coded time does not transmit interference and is insensitive to other electrical interference.

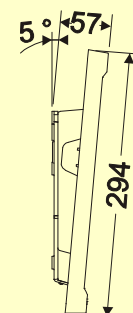
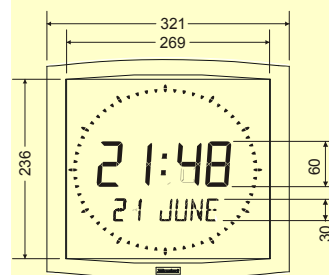
#### 24V minute impulses receiver movement

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

### 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 Cristalys 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). |         |
| ▶ Support for very low voltage power supply   | 938 907 |
| ▶ Plug-in mains adapter 230V/15V (Capacity : 20 clocks)   | 938 912 |

