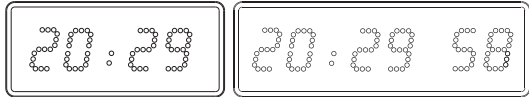
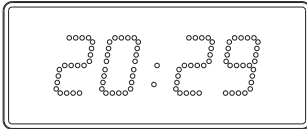
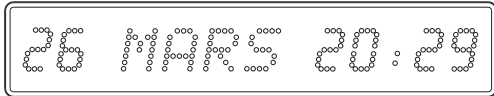


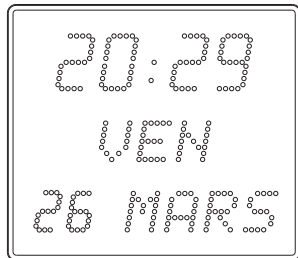
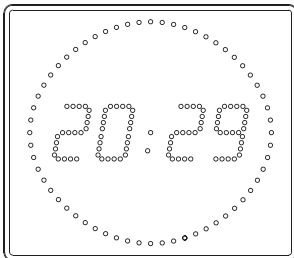
# Style 5



# Style 7



## AFNOR/DHF



## INSTALLATION AND OPERATING INSTRUCTIONS



B.P. 1  
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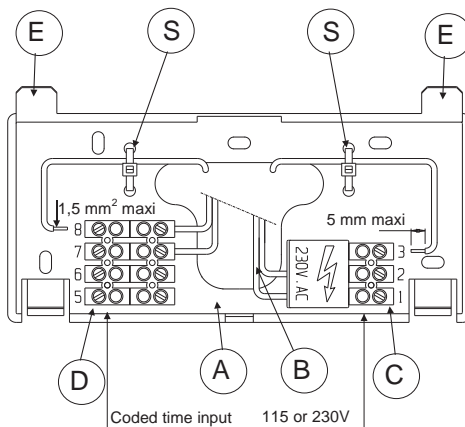
## 1) INITIAL CHECKS

- In its original packaging, each Style clock is supplied clipped onto its wall holder, together with a cleaning kit (impregnated anti-static cloth), a bag containing 3 screws and 3 rawplugs.

- Unclip the holder (A) : insert your finger at the base of the opening (B), then pull firmly towards you.

- **IMPORTANT** : Product information

Two descriptive labels are affixed to the back of the clock, and visible once the holder has been removed. One of them indicates the following information : Clock model (Style 5, Style 7, ...), power supply, type of clock (refer to information below), other information such as the colour for example. Check that the Style clock which has been delivered to you is suitable for the intended mode of operation.



### REC. AFNOR

The clock must be linked up to a coded time distribution network complying with the AFNOR or IREG B extended DIEM.

### Radio DHF

The clock is radio-synchronised by a DHF transmitter.

**Any operation not complying with the present instructions can cause irreversible damage to the clock, and renders the warranty invalid.**

**The present instruction booklet concerns "AFNOR" and "DHF" clocks. For other models, please refer to the appropriate instruction booklet.**

### Security rules :

The installation and the maintenance service of this clock has to be done by skilled person.

The installation has to be done according to the standard (NFC 15-100 for France).

You need a 4A break circuit before the power supply.

This break circuit has to be turned off in case of maintenance service.

The power supply has to be turned on only after fixing the clock.

Connection according to the installation instructions TN or TT.

## 2) INSTALLATION OF AND ELECTRIC POWER SUPPLY FOR STYLE CLOCKS

- Wall mounting : fix the holder (A) in the chosen position, using the 3 rawplugs and 3 screws supplied.

- Mounting on vertical bracket or ceiling bracket : the holder (A) fits the single-sided mounting bracket, P/N 936301, the double-sided mounting bracket, P/N 936300, and the double-sided chain suspension P/N 936302. Use the tapping screws supplied with the bracket.

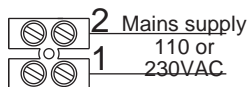
- A flush-mounting holder for Style 5 s clocks is also available, P/N 936306. This type of mounting is particularly suitable for operating theatres in hospitals and clinics.

Mains connections :

- Remove the black protective cover covering the terminal strip (C). Connect up the 115 or 230 Volt 50/60 Hz mains supply line to the terminal strip : Live and Neutral on terminals 1 and 2 (Wire max. section : 1.5 mm<sup>2</sup> with 5 mm bare). As this clock is classified on the 2<sup>nd</sup> level, the connection to the earth is not required because it is not used.

Put the protective cover back in place. Lock the wires with collars (S).

*N.B.: Style clocks have been designed for a 115 or 230 Volt ± 10 % mains supply.*

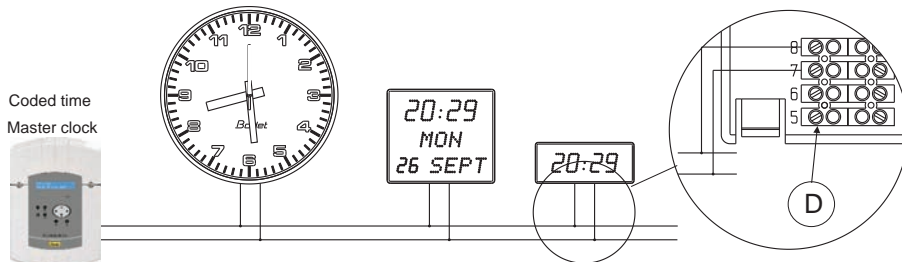


*This clock is protected by a fuse (F1).*

| Style 5           | Style 5S and Style 7 | Style 5D, Style 7D and 7E |
|-------------------|----------------------|---------------------------|
| 0,5 A slow acting | 0,8 A slow acting    | 4 A slow acting           |

AFNOR clocks :

- Connect the time coded line to terminals 7 and 8 on the terminal strip (D). There is no polarity.



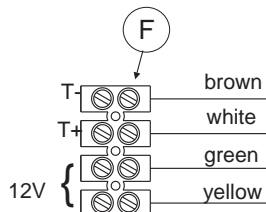
Style 5S Timer mode :

If the clock is to be connected to a timer control unit :

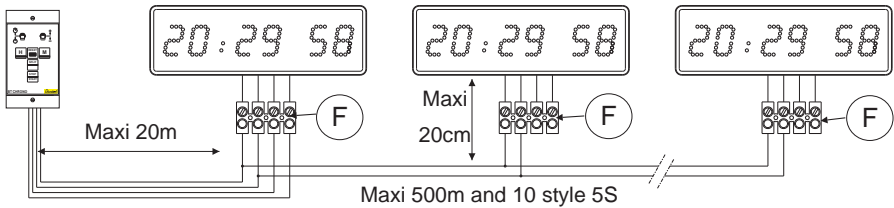
The timer control unit, P/N 936400, operates in count-up or count-down modes. Its various functions include : Start, Stop, Split Time, triggering of a relay at the end of the count-down or count-up operation (to stop at a pre-programmed time). The timer control unit can control up to ten Style 5 s clocks.

Style 5 s clocks are equipped with a “loose” terminal strip (F), independent of the two terminal strips (C) and (D) fixed on the mounting.

- Connect up the timer control unit to the terminal strip (F), using a 4 wires cable (T-, T+, and 2 wires for the 12 Volt supply).



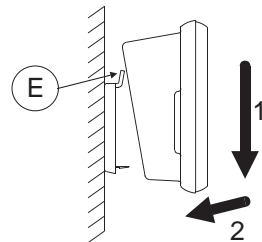
- Chaining several Style 5 s clocks on the same timer control unit can be achieved by connecting all T- terminals together, as well as all T+ terminals together, using a 2 wires telephone cable. The first clock remains connected to the timer control unit through a 4 wires cable.



- For further information, please refer to the instructions relating to the timer control unit.

Wall setting :

- Clip the clock onto its holder, by introducing the two studs (E) into the two corresponding openings made in the back of the clock, and then by pressing firmly on the lower part of the clock, until it clicks into place. Take care not to jam the cables during this operation.



- The clock can be subsequently unclipped from its holder, by pulling the lower part of the clock firmly towards you, and then by removing it via the top.

- You may now configure your Style clock, and adjust the display brightness. Please refer to Chapters 4 to 6.

- Remove the protective sheet from the front panel and use the anti-static cloth to clean the clock.

- **Caution** : if the AFNOR signal is lost, the clock continues to operate for 15 minutes in independent mode and then the display goes off. Only the separating column sign “:” remains on, indicating that power continues to be supplied to the clock.

**3) LOCATION OF THE “SELECT” AND “+” KEYS**

- These two keys are located on the back of the clock, on the right on Style 5, Style 5 s and Style 5 date clocks, on the left on Style 7, Style 7 ellipse and Style 7 date clocks.

- The “Select” key is above the “+” key.

## 4) CONFIGURATION

To access this menu, first press the "SELECT" key, then keeping the "SELECT" key pressed down, press the "+" key for 3 seconds.

It is possible to exit this menu at any time. All you have to do is to press the "Select" key, and then with the "Select" key pressed down, press the "+" key. Release the two keys afterwards.

### a -Selecting the operating mode

The clock displays the previously selected operating mode :

| Operating Mode         | Display<br>Style 5, 5 s, 7 and 7 ellipse | Style 5 date and 7 date |
|------------------------|--|-------------------------|
| Coded Time Slave Clock | C od                                     | CODE                    |
| World Clock            | L OC                                     | LOC.                    |
| Calibration            | C AL                                     | CAL.                    |

Select the required operating mode using the "+" key.

When the chosen operating mode (e.g. "Cod") appears on the display, press the "Select" key to enter your selection.

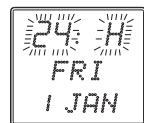
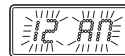
The "Calibration" mode enables to display the version no., press the "Select" key to confirm.

The clock displays "88:88" (all leds are on) and "VV XX" (eg.: 26 80 means that the version no. is 2.6 and the calibration value is 80). Press the "Select" key to exit.

In "Coded Time Slave Clock" mode, it displays the received coded time, without any modification.

In "World Clock" mode, it computes and displays the local time, using the received coded time and its parameters for summer / winter daylight time changeover (paragraph c) and time lag (paragraph d).

### b -12 or 24H display selection



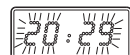
The clock displays "24 H" (time display from 0:00 to 23:59) or "12AM" (UK/USA display from 1:00 to 12:59).

- You can choose one of these options using the "+" key. Enter by pressing the "Select" key.

### c -Style 5, Style 5 s, Style 7 and Style 7 ellipse clocks

Using the "+" key, select the type of display required from one of the following four options :

- The current time blinks (e.g. 20:29). This selection corresponds to the most frequent mode of operation : permanent time display.

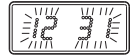


- "31 12" blinks : this selection corresponds to an



alternate display of the time and of the date (day-month).

- "12 31" blinks : this selection corresponds to an alternate display of the time and of the date, in the USA manner (month - day).



- "52" blinks : this selection corresponds to an alternate display of the time and of the week number.



Enter by pressing the "Select" key. This last pression allows to exit the "configuration" menu.

### d -Style 5 date and Style 7 date clocks

The language blinks :

|    |              |    |             |
|----|--------------|----|-------------|
| F  | = French     | N  | = Norwegian |
| GB | = English    | S  | = Swedish   |
| SP | = Spanish    | DK | = Danish    |
| D  | = German     | FI | = Finnish   |
| I  | = Italian    | CA | = Catalan   |
| P  | = Portuguese | BA | = Basque    |
| NL | = Dutch      | GA | = Gallego   |



- Select the desired language using the "+" key, then enter by pressing the "Select" key.

- Using the "+" key, choose any second language as required for alternate display. If you select "- -", only the first language will be used. Enter by pressing the "Select" key.

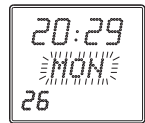


For a Style 5 date clock, this last pression allows to exit the "configuration" menu.

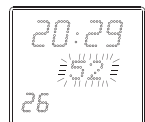
### e -Style 7 Date clocks

Using the "+" key, select the type of central display required from one of the following two options :

- Day of the week (MON, TUE, ..., SUN)



- "52". This selection corresponds to a week number display.



Enter by pressing the "Select" key.

This last pression allows to exit the "configuration" menu. The clock then returns to the display mode corresponding to its normal use.

## 4.1 DHF clock

Caution: when installing the clock, the master clock Sigma or the transmitter must be set to INIT mode.

On leaving the factory, the DHF clock is set in "Initialisation" mode and on the initial powering up the time is initialised at 00h00mn00ss on 01/01/2000. It memorises the address of the transmitter and switches to normal mode automatically when time is received.

If needed (change of communication channel, new installation...), the clock can be switched to "Initialisation" mode by pressing [SEL] button for more than 6 seconds. The clock displays 00h00mn on 01/01/2000.

The DHF radio clocks are set as AFNOR time code receivers.

## 4.2 AFNOR clock

### a -Selecting the Code

| Code                 | Display                       |                         |
|----------------------|-------------------------------|-------------------------|
|                      | Style 5, 5 s, 7 and 7 ellipse | Style 5 date and 7 date |
| AFNOR NF S 87-500-A  | <i>R F n</i>                  | <i>AFNO</i>             |
| IRIG B Extended DIEM | <i>d I E n</i>                | <i>DIEM</i>             |

Select the code using the "+" key, then enter your selection using the "Select" key.

If you do not know which code is supplied by the master clock :

If the selected code on the Style Clock is different from the one managed by the master clock, then the Style clock may either :

- Refuse entirely the coded time message : the clock can not be set to time.
- or be confused between both codes. It will be set automatically to the right time, but with a wrong date.

In both cases, try another code.

The chart below described the information available for both codes.

| AFNOR NF S 87-500-A |              | DIEM's Extended IRIG B |            |
|---------------------|--------------|------------------------|------------|
| Seconds             | (00 to 59)   | Seconds                | (00 to 59) |
| Minutes             | (00 to 59)   | Minutes                | (00 to 59) |
| Hours               | (00 to 23)   | Hours                  | (00 to 23) |
| Julian Date         | (001 to 366) | Day of week            | (1 to 7)   |
| Year                | (00 to 99)   | Day of month           | (01 to 31) |
|                     |              | Month                  | (01 to 12) |
|                     |              | Year                   | (00 to 99) |



b -Summer / Winter time changeover selection, only if the operating mode selected is “LOC” (World Clock).

Using the “+” key, select the required country of reference for the summer / winter time changeover, then enter your selection using the “Select” key.

| Country of Reference                  | Display<br>Style 5, 5 s, 7 and 7 ellipse | Style 5 date and 7 date |
|---------------------------------------|--|-------------------------|
| No changeover                         | C nt                                     | HGMT                    |
| Europe, except for the United Kingdom | E ur                                     | EURO                    |
| United Kingdom                        | Gb                                       | UK                      |
| United States / Canada                | U SA                                     | USA                     |
| Australia                             | A US                                     | AUS                     |

Rules used by the Style clock to define the periods of Daylight Time

Europe, except for United Kingdom: from last Sunday of March to last Sunday of October. All changeovers occur at 1.00 AM GMT.

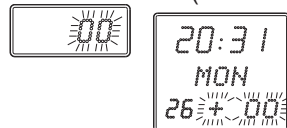
United Kingdom : from last Sunday of March to the day after the 4<sup>th</sup> Saturday of October. All changeovers occur at 1.00 AM GMT.

United States / Canada : from the second Sunday of March to the first Sunday of November. All changeovers occur at 2.00 AM Local Time.

Australia : from first Sunday of October to first Sunday of April. All changeovers occur at 2.00 AM Local Time.

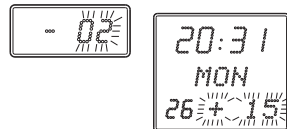
c -Time Lag selection, only if the operating mode selected is “LOC” (World Clock)

The time lag blinks (00 by default).



- Select the time lag required, from -15 h to +15 h, using the “+” key, then enter by pressing the “Select key”.

The selected time lag will be only effective after 2 correct receptions of the coded time message, i.e. about 3 seconds.



## 5) CONFIGURING A WORLD CLOCK

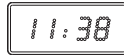
**NEW-YORK**



**LONDON**



**PARIS**



**TOKYO**



**SYDNEY**



- Use as many AFNOR Style Clocks as towns concerned. Connect them (as explained in Chapter 2) to an AFNOR (or extended IRIG B) Coded Time Master Clock, e.g. an AFNOR Emitting Style 7 date.

**- Important :** configure the Coded Time Master Clock so that it generates G.M.Time. No summer / winter daylight time changeover.

- As described in Chapter 4, configure each AFNOR Style Clocks selecting "LOC" (World Clock) as to the operating mode, and choosing the adequate Reference Country (for automatic daylight time changeover) and Time Lag, depending on the town which local time you want to display.

Time Lag = Winter Time - Greenwich Mean Time

Daylight Time = Winter Time + 1 hour.

Examples :

| Town              | Reference Country      | Time Lag |
|-------------------|------------------------|----------|
| LOS ANGELES       | United States / Canada | - 08     |
| MEXICO            | No changeover          | - 06     |
| CHICAGO           | United States / Canada | - 06     |
| NEW-YORK, TORONTO | United States / Canada | - 05     |
| BUENOS-AIRES      | No changeover          | - 04     |
| LONDON            | United Kingdom         | 00       |
| PARIS *           | Europe, except for UK  | + 01     |
| HELSINKI, ATHENS  | Europe, except for UK  | + 02     |
| JOHANNESBURG      | No changeover          | + 02     |
| MOSCOU            | Europe, except for UK  | + 03     |
| HONG-KONG **      | No changeover          | + 08     |
| TOKYO, SEOUL      | No changeover          | + 09     |
| SYDNEY            | Australia              | + 10     |

Notes :

\* Paris, as well as Frankfurt, Madrid, Stockholm, Oslo, Zürich, Milan, Amsterdam, ...

\*\* Hong-Kong, as well as Tai-Pei, Bangkok, Singapore, Kuala Lumpur, Beijing, ...

## **6) DISPLAY BRIGHTNESS ADJUSTMENT**

- The display brightness can be adjusted when the Style clock is in normal operating mode, i.e. when the clock is neither in the "configuration" menu, nor in the "time-setting" menu.
- By pressing the "+" key several times in succession, you can directly select the level of display brightness most suited to the level of ambient lighting, from the four brightness levels proposed.

## **7) DATA BACK-UP**

- Style clocks possess a permanent data back-up facility which permits the clock to store all the configuration parameters and display selections, even in the event of a prolonged mains power failure.

## **8) CLEANING**

- Use an anti-static cleaner similar to that supplied in the original packaging.  
Never use cleaning spirits, acetone or any other solvents which are likely to damage the casing and the filter of your Style clock.

## **APPENDIX : TECHNICAL FEATURES**

The Style clocks are compliant to the electromagnetic standard 89/336/CEE

They are designed for indoor use.

They are compliant with the following European standards :

- NF EN 55022 (December 1994).
- NF EN 50082-1 (June 1992).
- EN 60950

- Power supply : 115 or 230 V  $\pm$  10 % 50/60 Hz.

- Operating temperature : 0 to 50°C

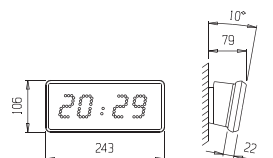
- Protection index : IP30

These clocks are protected by a fuse (F1).

|                   |                      |                           |
|-------------------|----------------------|---------------------------|
| Style 5           | Style 5S and Style 7 | Style 5D, Style 7D and 7E |
| 0,5 A slow acting | 0,8 A slow acting    | 4 A slow acting           |

### Style 5

- Size (in mm) :
- Weight : 0,8 kg
- Maximum nominal current : 40 mA



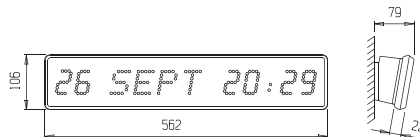
### Style 5S

- Size (in mm) :
- Weight : 1 kg
- Maximum nominal current : 55 mA



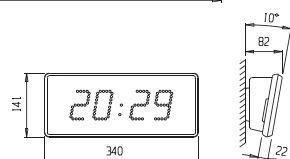
### Style 5D

- Size (in mm) :
- Weight : 1,6 kg
- Maximum nominal current : 100 mA



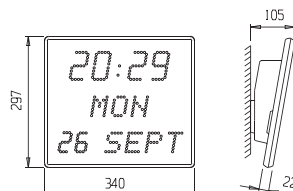
### Style 7

- Size (in mm) :
- Weight : 1,1 kg
- Maximum nominal current : 65 mA



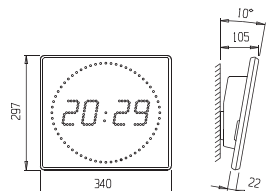
### Style 7D

- Size (in mm) :
- Weight : 2,2 kg
- Maximum nominal current : 150 mA



### Style 7E

- Size (in mm) :
- Weight : 2,1 kg
- Maximum nominal current : 80 mA.



### Wall bracket

