

# AFNOR time code

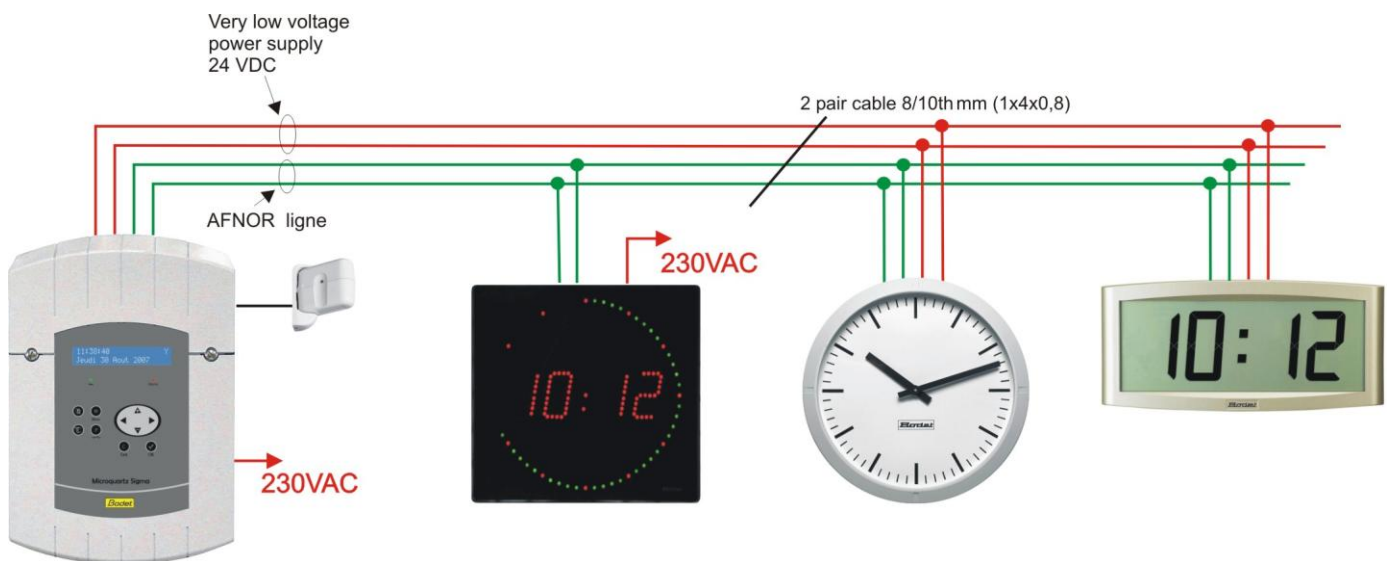
## AFNOR TBT time code

# AFNOR

### Description :

- ▶ AFNOR TBT clock system consists in transmitting a complete time message including Hour Minute Second Day Month Year to secondary clocks.
- ▶ The time code AFNOR is standardized. Every second the master clock emits a code to synchronise the secondary clocks. AFNOR signal is insensitive to interferences. It permits to synchronise up to 50 clocks.
- ▶ The master clocks Sigma transmit the AFNOR TBT through a 8/10th 2-pair cable: 1 pair for time code (AFNOR) and 1 pair for 24VDC (TBT).
- ▶ The 24VDC power can be supplied by the master clock or by a separate transformer.
- ▶ AFNOR TBT permits to simplify the wiring and avoids 230VAC cabling.
- ▶ Clocks fully compatible with AFNOR TBT are:
  - Profil 930 / 940 / 960i
  - Cristalys 7 / 14 / Date / Ellipse.
- ▶ The cable length will depend on the number of secondary clocks.  
e.g. for a single line :

Number of clocks	1	10	20	30	40	50
Cable length (0.8 mm <sup>2</sup> )	8300 m	830 m	415 m	275 m	208 m	165 m



### Reference

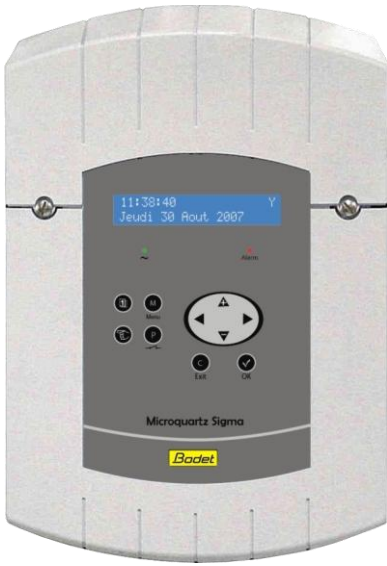
### Wall mounting

### Rack mounting

- |   |         |         |
|---|---------|---------|
| ▶ Sigma H radio synchronisable 110/230V | 907 411 | 907 413 |
| ▶ Sigma P radio synchronisable 110/230V | 907 431 | 907 433 |
| ▶ Sigma M radio synchronisable 120/240V | 907 451 | 907 453 |



# Master Clocks



## Sigma H

- external synchro GPS, DCF or FI,
- 1 AFNOR output,
- 1 TBT 24V output,
- permanent back-up of time and programming,
- power supply 100 to 240 VAC,
- rack or wall mounting,
- 1 alarm relay.

## Sigma P

- Same features as Sigma H, with 2 additional Afnor outputs as option.

## Sigma M

- Same features as Sigma H, with up to 6 additional Afnor outputs as an option.

Secondary clocks AFNOR TBT		Secondary clocks AFNOR 230V		
<b>Cristalys clocks :</b>	<b>Profil clocks:</b>	<b>Opalys clocks :</b>	<b>Profil clocks :</b>	<b>Style clocks :</b>
<ul style="list-style-type: none"> <li>- AFNOR receiver,</li> <li>- casing available in 4 colours,</li> <li>- models :                             <ul style="list-style-type: none"> <li>- Cristalys 7,</li> <li>- Cristalys Date,</li> <li>- Cristalys Ellipse,</li> <li>- Cristalys 14.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- AFNOR receiver,</li> <li>- arabic, notches or DIN dial,</li> <li>- grey, black or chromium ring,</li> <li>- vitre de protection,</li> <li>- models :                             <ul style="list-style-type: none"> <li>- Profil indoor 930i/ 940i/ 960i.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- AFNOR receiver,</li> <li>- 230VAC power,</li> <li>- models :                             <ul style="list-style-type: none"> <li>- Opalys 7,</li> <li>- Opalys Date,</li> <li>- Opalys Ellipse,</li> <li>- Opalys 14.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- AFNOR receiver,</li> <li>- arabic, notches or DIN dial,</li> <li>- Protection glass,</li> <li>- models :                             <ul style="list-style-type: none"> <li>- Profil outdoor 940e/ 960e.</li> </ul> </li> <li>- 230VAC power.</li> </ul>	<ul style="list-style-type: none"> <li>- AFNOR receiver,</li> <li>- 4 colours of LED,</li> <li>- 230VAC power,</li> <li>- models :                             <ul style="list-style-type: none"> <li>- Style 5, 5S, 5 Date,</li> <li>- Style 7, 7 Date,</li> <li>- 7 Ellipse,</li> <li>- Style 12, 12S.</li> </ul> </li> </ul>