

Master clocks

AFNOR time distribution

Nanotime

The Nanotime time base sends local time by using AFNOR time code.

It is synchronised by a GPS antenna which is provided with the product.

It includes 67 time zones with automatic daylight saving time.

The AFNOR time distribution consists in transmitting a complete time message containing hour, minute, second, day, month and year to the clocks.



General features:

- ▶ Synchronisation: GPS.
- ▶ Time output: AFNOR (NFS 87500-A), 10 clocks maximum.
- ▶ Power supply: 100-240VAC 50-60Hz or 12VDC (TBT version).
- ▶ Accuracy: 0.2s/day.
- ▶ Dimensions: 150 x 110 x 90 mm.
- ▶ Operating temperature : -20°C to + 50°C for 240V version,
-20°C to +70°C for TBT version.
- ▶ Consumption: 9.2W.
- ▶ Weight: 0.6 Kg.
- ▶ Protection rating: IP 55, IK 08.

Operating:

Once the Nanotime is synchronised, the AFNOR output becomes active.

If the synchronisation is lost, the AFNOR output remains active.

After 24 hours without synchronisation, the synchro LED enters in search mode.

After a power failure, it is necessary to have the Nanotime synchronised for resetting the slave clocks.

A set of LEDs is used to verify the proper functioning of the product:

- Green LED indicating power supply,
- Red LED to check the status of the synchronisation,
- Red LED to check the status of the AFNOR output.

8 «*TIME ZONE*» *DIP switches* are used to set the local time.

The Nanotime automatically handles the daylight saving times.

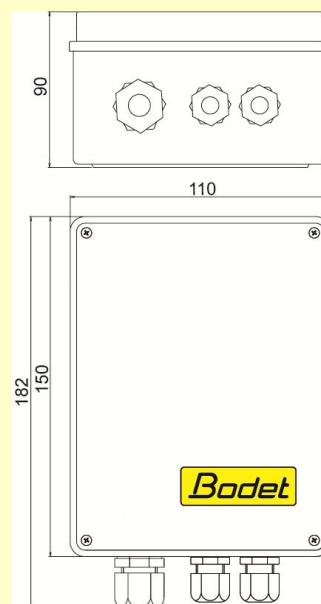
These DIP switches can be set with the Nanotime switched on.

Two of these DIP switches are used to manually handle the daylight saving times:

- One is used to activate manual handling,
- Other one is used to set Winter or Summer time if manual handling is activated.

Applicable standards :

- Low voltage directive 2006/95/CE:
EN60950.
- EMC directive 2004/108/CE :
EN55022
EN55024.



Reference:

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| ▶ NANOTIME GPS>AFNOR 100-240V | 927281 |
| ▶ NANOTIME GPS>AFNOR TBT 12V | 927282 |



Ref. 643D71 D