

# Technical features

## AFNOR time distribution

## Nanotime

The Nanotime time base sends AFNOR signal in local time. This product includes 67 time zones with integrated daylight saving time.

The AFNOR consists in transmitting a complete time message including Hour Minute Second Day Month and Year to clocks.

The Nanotime time base is synchronised by a GPS antenna (included) ensuring high accuracy.



### General features :

- ▶ Synchronisation : GPS.
- ▶ Time output : AFNOR (NFS 87500-A).
- ▶ 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 obtained the first synchronisation, then the AFNOR output is permanently active. In case of loss of synchronisation, the AFNOR output remains active. If after 24 hours, there were no new synchronisation, the synchronisation LED is then put in search mode. After a power failure, it is necessary to have a new synchronisation for the product to function properly.

The local time is set using the "TIME\_ZONE" DIP switches.

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 transmission.

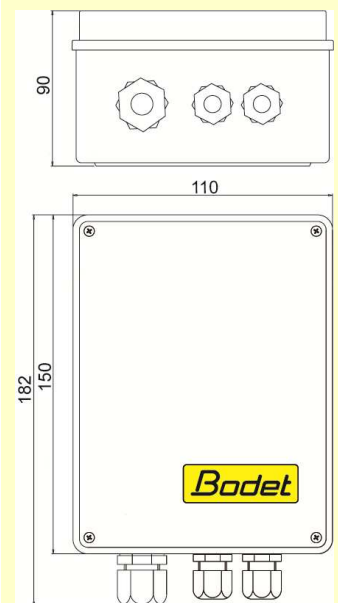
8 «TIME\_ZONE» DIP switches are used to set the "time zone" to be transmitted. Nanotime automatically handles the daylight saving time.

2 DIP switches are used to handle time change manually:

- 1 DIP switch is used to activate manual time change,
- 1 DIP switch is used to set Winter or Summer time if manual time change 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 |

