

Master clocks

DHF time distribution

Nanotime

The Nanotime time base sends local time by using DHF signals.

It is synchronised by a GPS, FI or DCF antenna which is provided with the product.

It includes 67 time zones with automatic daylight saving time.

The 869 MHz radio waves can be received through building walls. The range is about 100 to 200 m depending on the number, structure and thickness of the walls.



General features :

- ▶ Synchronisation: GPS, FI or DCF.
- ▶ Time output: DHF 869.525MHz (NFS 87500-C).
- ▶ Power supply: 240V 50-60Hz for FI and DCF versions, 100-240V 50-60Hz for GPS version.
- ▶ Accuracy: 0.2 s/day.
- ▶ Dimensions: 150 x 110 x 90 mm.
- ▶ Operating temperature: -20°C to + 50°C.
- ▶ Consumption: 9.2 W.
- ▶ Weight: 0.6 Kg.
- ▶ Protection rating: IP 55, IK 08.

Operating :

Once the Nanotime is synchronised, the DHF output becomes active. If the synchronisation is lost, the DHF 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 DHF output,
- Yellow LED indicating the operation mode of the DHF output.

The INIT button is used to set the operation mode of the DHF output: INIT or NORMAL.

2 DIP switches are used to set 3 power levels: 25mW, 125mW or 500mW.

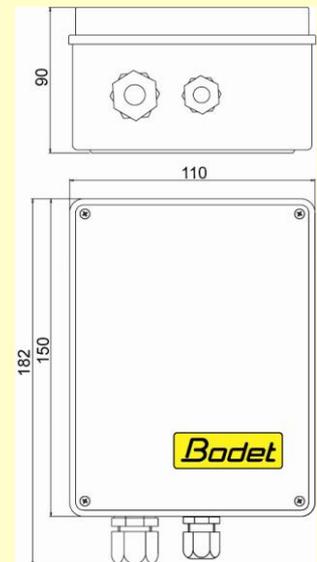
A 10-position rotary DIP switch is used to set the DHF address (1 to 9). In position 0, no DHF.

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.
- R&TTE directive 1999/5/CE : EN301-489-3 EN300-220-2



Reference:

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| ▶ NANOTIME FI>DHF 240V | 927271 |
| ▶ NANOTIME DCF>DHF 240V | 927272 |
| ▶ NANOTIME GPS>DHF 100-240V | 927273 |



Ref. 643D61 C