

# Master clock

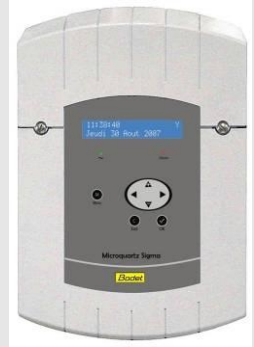
## Master clock

## Sigma H

### Rack version



### Wall-mounted version



#### Wire or wireless time distribution.

Master clock for synchronisation of a clock network.

### Description:

- ▶ Synchronisable via GPS, FI or DCF antenna.
- ▶ 3 relays: 1 for alarm and 2 for D1D2 control
- ▶ Automatic resetting of time distribution after power shortage.
- ▶ Clock synchronisation with wired or DHF wireless coded time signals.
- ▶ USB slot for system update.
- ▶ Automatic summer/winter changeover.

### Technical features:

- ▶ ABS casing for wall-mounted or aluminum casing for 19" rack (1U height).
- ▶ Power and alarm led indicators.
- ▶ Keyboard with sensitive keys.
- ▶ Time base accuracy: 0.1 s/day at 25°C and 0.2 s/day maximum from 0 to 40°C (Temperature compensated quartz oscillator TCXO).
- ▶ Absolute accuracy with GPS or radio antenna.
- ▶ Retro illuminated display with 2 lines of 24 characters each readable at one meter.
- ▶ Operating temperature : 0 to +50°C.
- ▶ LCD display : hour - minute - second - date.
- ▶ Permanent saving of programming and time.
- ▶ Programming protected by access code.
- ▶ Clock output protected against short-circuits and overloads.
- ▶ Protection level: IP41.
- ▶ Drilling indications: →

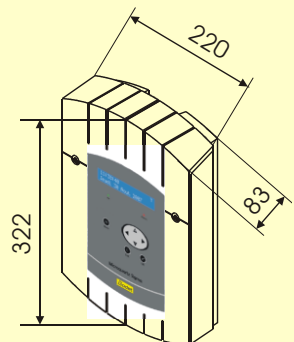


### 1U rack version



Weight: 1.4 Kg

### Wall mounted version



Weight: 1 Kg  
Wall mount through 2 screws

### Norms:

- ▶ Applicable norms: EN 60950 - EN 55022 - EN 55024 – EN 301-489-3 – EN 300 -220-3.
- ▶ FI/DCF signal norm: NFC 90002.
- ▶ IRIG.B / AFNOR norm: NFS 87500A.
- ▶ AFNOR/DHF norm: NF S 87-500 C (fixed channel, 869.525 MHz at 500 mW).



Ref. 643311 I

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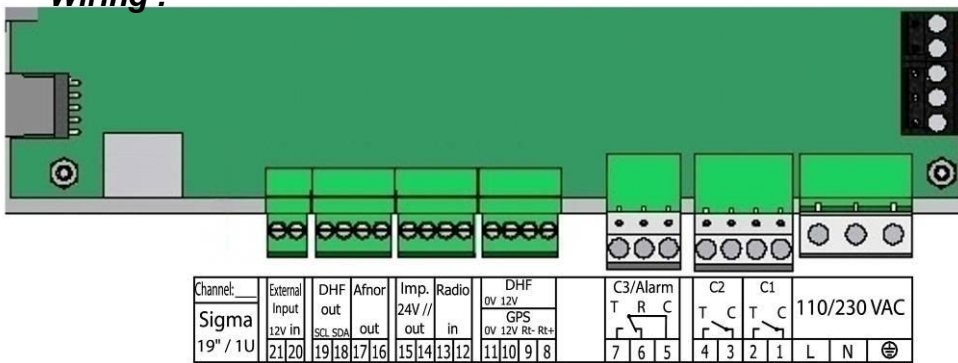
## Master clock

## Sigma H

### Electrical connections:

- ▶ Power: 24V DC (25W), or 36/72VDC (50W) or 100/240V  $\pm 10\%$  50/60Hz (25W).
- ▶ Inputs / outputs:
  - 1 polarised impulse output (24V // minute /  $\frac{1}{2}$  minute / second, 0.5A), SR2-59 or TBT 24V,
  - 1 DHF output for DHF transmitter,
  - 1 AFNOR coded time output
  - 1 USB slot.
  - 3 relays for D1D2 impulses (2 SPNO relays) and alarm (1 SPDT).

### Wiring :



### DHF transmitter



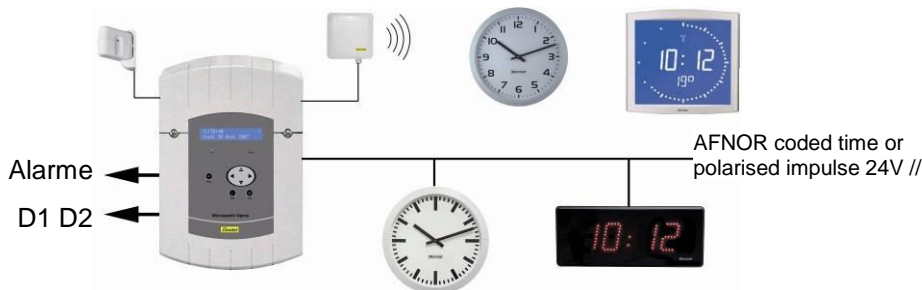
Reference : 907 511

### FI or DCF antenna



- ▶ The C1 and C2 circuits (SPNO relays) control the D1D2 impulses.
- ▶ The C3 circuit (SPDT relay) is assigned to alarm output
- ▶ The settable time output (14-15) allow time distribution in minute,  $\frac{1}{2}$  minute or second 24 V // (0.5A), or SR2-59 or a TBT power generator 24V.
- ▶ The AFNOR output (16-17) allows the synchronisation of approximately 50 clocks over 30km.
- ▶ The DHF output (18-19) when connected to a DHF transmitter can control the wireless relay controllers for lighting, air conditioning, etc, the wireless chimes and the wireless clocks.

### SIGMA H – Time distribution



### References:

- ▶ Sigma H 120/240V
- ▶ Sigma H 24VDC
- ▶ Sigma H 36/72VDC
- ▶ FI radio antenna
- ▶ DCF radio antenna
- ▶ GPS antenna
- ▶ DHF transmitter
- ▶ DHF repeater

wall	rack
907 411	907 413
907 412	907 414
	907 416
	907 025
	907 026
	907 037
	907 511
	927 240

