

# Master clock programmer

## Master clock

## Sigma P

**Rack version**



**Wall-mounted version**



**Wire or wireless time distribution and relay programming.**

Master clock with programmable circuits, control of clock network, relays and bell.  
PC software programming and USB key transfer.

**Description:**

- ▶ Synchronisable via GPS, FI or DCF antenna.
- ▶ 3 programming circuits with week mode, holiday or special day mode for the activation of bells and other systems such as heater, air conditioning, lighting, alarms access control, etc.
- ▶ Automatic resetting of time distribution after power shortage.
- ▶ Clock synchronisation with wired or DHF wireless coded time signals.
- ▶ Programming through PC software and data transferring through USB key.
- ▶ Automatic summer/winter changeover.
- ▶ Time distribution and relay/bell activation through radio DHF signal.

**Technical features:**

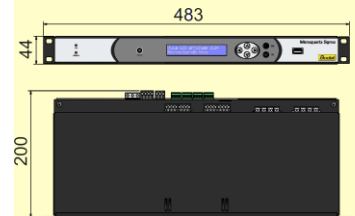
- ▶ ABS casing for wall-mounted or aluminum casing for 19" rack (1U height).
- ▶ Power and alarm led indicators.
- ▶ Keyboard with sensitive keys.
- ▶ Time base accuracy: 0.1 s/day at 25°C and 0.2 s/day maximum from 0 to 40°C (Temperature compensated quartz oscillator TCXO).
- ▶ Absolute accuracy with 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.
- ▶ Circuits with 3 relays, power cut: 1A / 240V.
- ▶ Clock output protected against short-circuits and overloads.
- ▶ Protection level: IP41.
- ▶ Drilling indications:

**Norms:**

- ▶ Applicable norms: EN 60950 - EN 55022 - EN 55024 - EN 301-489-3 - EN 300-220-3.
- ▶ F/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).

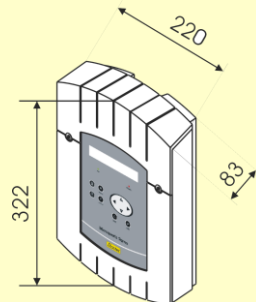


**1U rack version**



Weight: 1.4 Kg

**Wall mounted version**



Weight: 1 Kg  
Wall mount through 2 screws

**References:**

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

wall	rack
907 431	907 433
907 432	907 434
	907 436
	907 025
	907 026
	907 037
	907 511
	927 240



Réf. 643321 I

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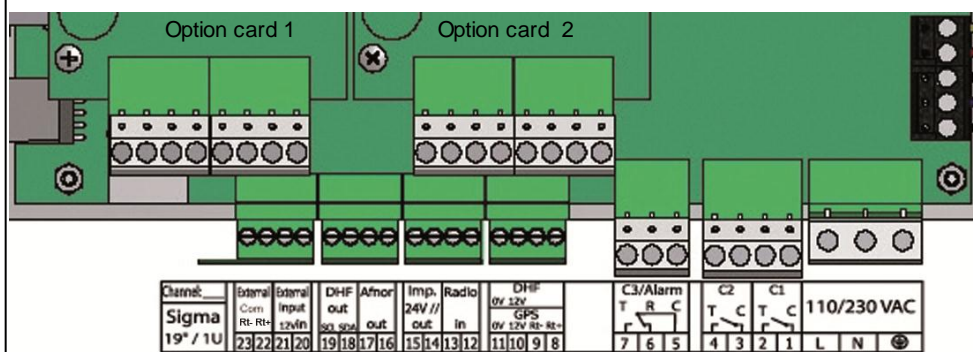
## Master clock

## Sigma P

### Electrical connections:

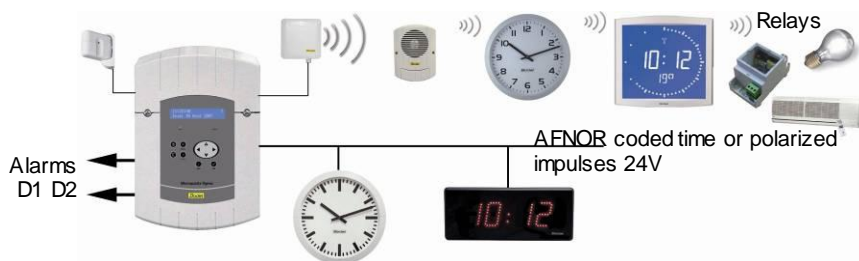
- ▶ Power: 24V DC (minimum 35W), or 36/72VDC (50W) or 100/240V ±10% 50/60Hz (35W).
- ▶ Inputs / outputs:
  - 1 polarised impulse output (24V// minute / ½ minute / second, 1A), SR2-59 or TBT 24V,
  - 1 DHF output for DHF transmitter,
  - 1 AFNOR coded time output
  - 1 external contact input.
  - 1 USB slot.
  - 3 relays for D1D2 impulses (2 SPNO relays) and alarm (1 SPDT) or for circuit programming.
- ▶ Optional inputs / outputs:
  - 2 possible option cards among 24V// impulse, AFNOR out, AFNOR in, serial RS232/485 or relay.

### Wiring :



- ▶ The C1 and C2 circuits (SPNO relays) control the D1D2 impulses or heater, air conditioning...
- ▶ The C3 circuit (SPDT relay) is assigned to alarm output or controls heater, air conditioning...
- ▶ The settable time output (14-15) allow time distribution in minute, ½ minute or second 24 V // (1A), SR2-59 or a TBT power generator 24V.
- ▶ The AFNOR output (16-17) allow s 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.
- ▶ The contact input (20-21) allow s remote control of the C1, C2 or C3 circuit from an external contact.

### SIGMA P – Time distribution and time scheduling



### Accessories



DHF transmitter  
Reference: 907 511



Melody's wireless chime



Wireless relay controller DHF  
Reference: 907 523

### Options :

- ▶ MELODYS - Wireless chime 100 à 240VAC 907 565
- ▶ MELODYS - Wireless chime 24VDC 907 566
- ▶ 1-relay indoor controller 907 523
- ▶ 1-relay outdoor controller 907 524
- ▶ 1-relay wall embedded controller 907 525

