

## DESCRIPTION

Rack version



Wall-mounted version



### Time distribution and relay programming through DHF radio and NTP.

- Master clock with programmable circuits, control of clock network, relays and bells, NTP time server.
- Modular design allowing the addition option cards (2 for the wall model and 4 for the rack version).
- Quartz oscillator time base that can be synchronised by an ALS, DCF, GPS, Galileo or GLONASS antenna or via NTP.
- 3 programmable circuits with weekly, holidays or special day modes for the control of bells or other systems such as heating, air conditioning, lighting, alarms, access control...
- Automatic resetting of time distribution after power shortage.
- Automatic summer/winter changeover.
- Programming by PC based software and program upload through Ethernet network.

## COMPLIANCE

- Directives : LVD 2014/35/EU, EMC 2014/30/EU.
- FI/DCF signal standard: NFC 90002.
- IRIG.B/AFNOR standard: NFS 87500A.
- AFNOR/DHF standard: NFS 87500C, fixed channel 869.525 MHz at 500mW.

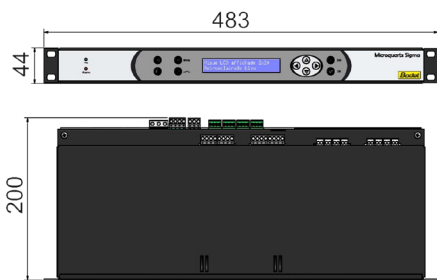
## GENERAL FEATURES

- **LED indicators**..... Power and alarm.
- **Quartz**..... TCX0 (temperature compensated crystal oscillator).
- **Typical accuracy**..... 0.1 sec/day to 25°C and maximum 0.2 sec/day of 0 to 40°C.
- **Absolute accuracy**..... 50ms with radio antenna ALS or DCF, 2ms with GPS, Galileo or GLONASS antenna.
- **Backlit LCD display**..... 2 lines of 24 characters.
- **LCD display**..... Hour - minute - second - date.
- **Backup**..... Of programming in flash memory and a Lithium battery keeps the internal clock running.
- **Access to the programming**..... Protected by access code.
- **Circuits**..... 3 relay circuits, contact rating: 1A / 240V.
- **Protection**..... Time distribution outputs protected against short circuits and overloads.

## MECHANICAL FEATURES

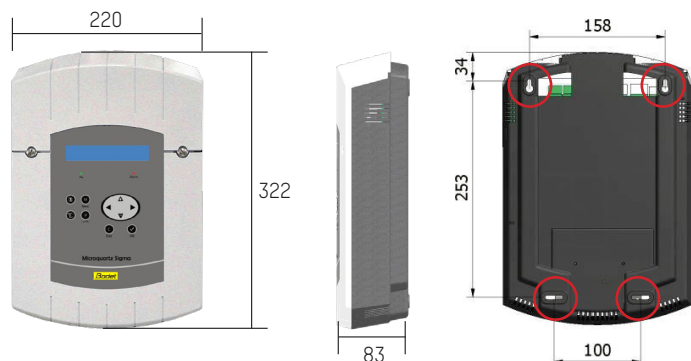
- **Construction**..... ABS casing for wall-mounted or aluminum casing for 19" rack (1U height).
- **Protection index**..... IP 4L.
- **Operating temperature range**..... 0° to +50°C.
- **Keypad**..... Sensitive keys.

1U rack version



Weight : 1.4 Kg

Wall-mounted version



Weight: 1.2 Kg - Wall mounting with 4 screws.

Mounting holes

Dimensions in mm

## ELECTRICAL FEATURES

- Power supply..... 20,4-28,8V $\equiv$  (25W).  
100-240V $\sim$ ; 0.8 - 0.55A.

## I/O CONNECTIONS

- Sigma Mod Inputs/Outputs.....
  - 1 polarised impulse output (24V // min / ½ minute / second, 0.5A), SR2-59 or TBT 24V,
  - 1 DHF output for radio transmitter,
  - 1 IRIG B/AFNOR coded time output,
  - 1 external contact input,
  - 3 relays (programmable as D1D2 impulses, alarm or circuits),
  - 1 Ethernet (RJ45) - NTP protocol.

## NETWORK SERVICES

### PROTOCOLS

NTP..... V2, V3, V4. Unicast, Broadcast and Multicast supported.

SNTP..... V3, V4.

### COMMUNICATIONS

SMTP..... E-mail

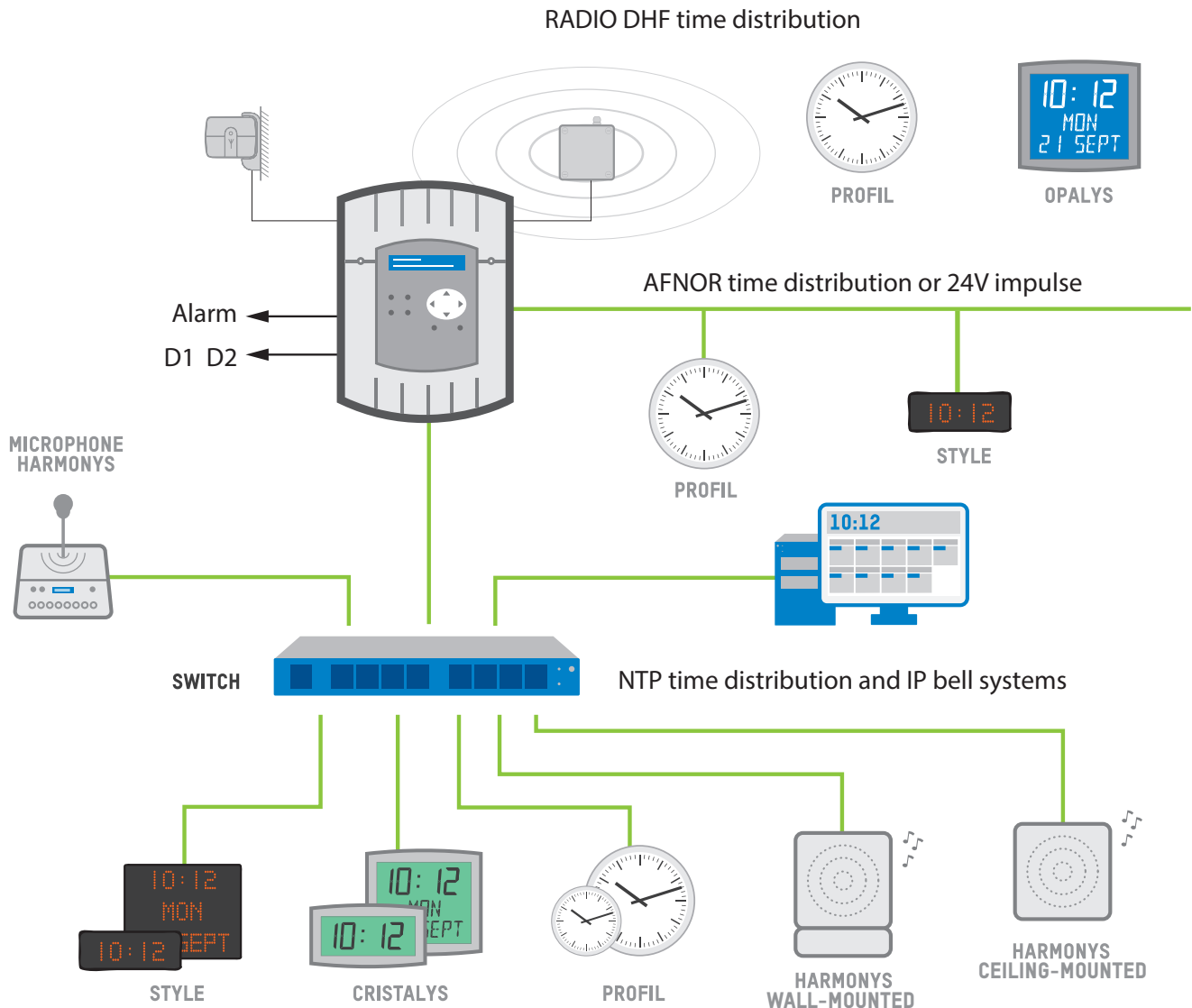
### MANAGEMENT

DHCP..... V4. Automatic assignment of IP addresses.

IP..... V4.

SNMP..... V2C (Trap).

## SCHEMATIC DIAGRAM



**MASTER CLOCKS**

Wall	Rack		
907 451	907 453	.....	Sigma Mod 100-240V~
907 452	907 454	.....	Sigma Mod 20,4-28,8V===

**ACCESSORIES**

- 907 025..... ALS radio antenna
- 907 026 ..... DCF radio antenna
- 907 043 ..... Galileo antenna
- 907 044 ..... GLONASS antenna
- 907 047 ..... GPS antenna
- 907 512 ..... DHF transmitter
- 927 241 ..... DHF secondary transmitter

**OPTION CARDS**

- 907 531 ..... 1x 24V // impulse, minute or second output
- 907 533 ..... 3x AFNOR outputs
- 907 534 ..... 2x ASCII RS232/422/485 outputs
- 907 535 ..... 3x programming relay (1 relay R/T, 2 relays T)
- 907 536 ..... 1x AFNOR synchronisation input
- 907 537 ..... 1x Sigma Sound module
- 907 539 ..... 2x 20-50V serial impulse outputs
- 907 541 ..... 2x 24V serial impulse outputs
- 907 542 ..... 3x external inputs