

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 a ALS, DCF, GPS or NTP antenna.
- 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 USB flash drive or Ethernet network.

STANDARDS

- Applicable standards: EN 60950 - EN 55022 - EN 550024 - EN 301-489-3 - EN 300 -220-2.
- FI/DCF signal standard: NFC 90002.
- IRIG.B/AFNOR standard: NFS 87500A.
- AFNOR/DHF standard: NFS 87500C, fixed channel 869.525 MHz at 500mW.

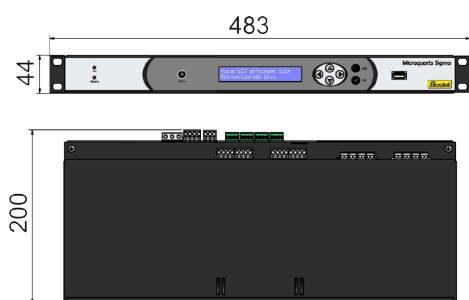
GENERAL FEATURES

- **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 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

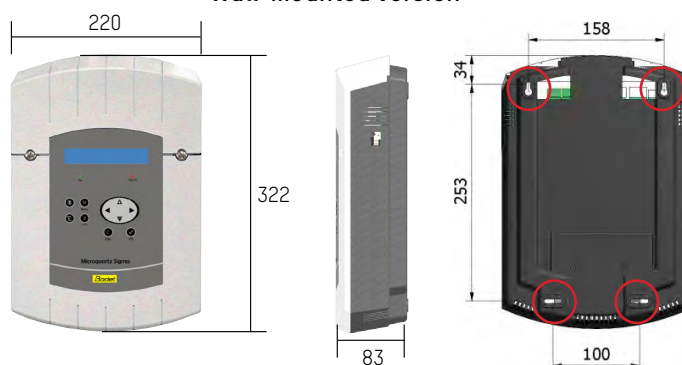
- **Construction**..... ABS casing for wall-mounted or aluminum casing for 19" rack (1U height).
- **Protection index**..... IP 41.
- **Operating temperature range**..... 0° to +50°C.
- **Keypad**..... Sensitive keys.

1U rack version



Weight : 1.4 Kg

Wall-mounted version



Weight: 1.2 Kg - Wall mounting with 2 screws.

Mounting holes
Dimensions in mm

ELECTRICAL FEATURES

- Power supply..... 24VDC (25W).
36-72VDC (50W).
100-240VAC ; 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,
 - 1 USB port,
 - 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

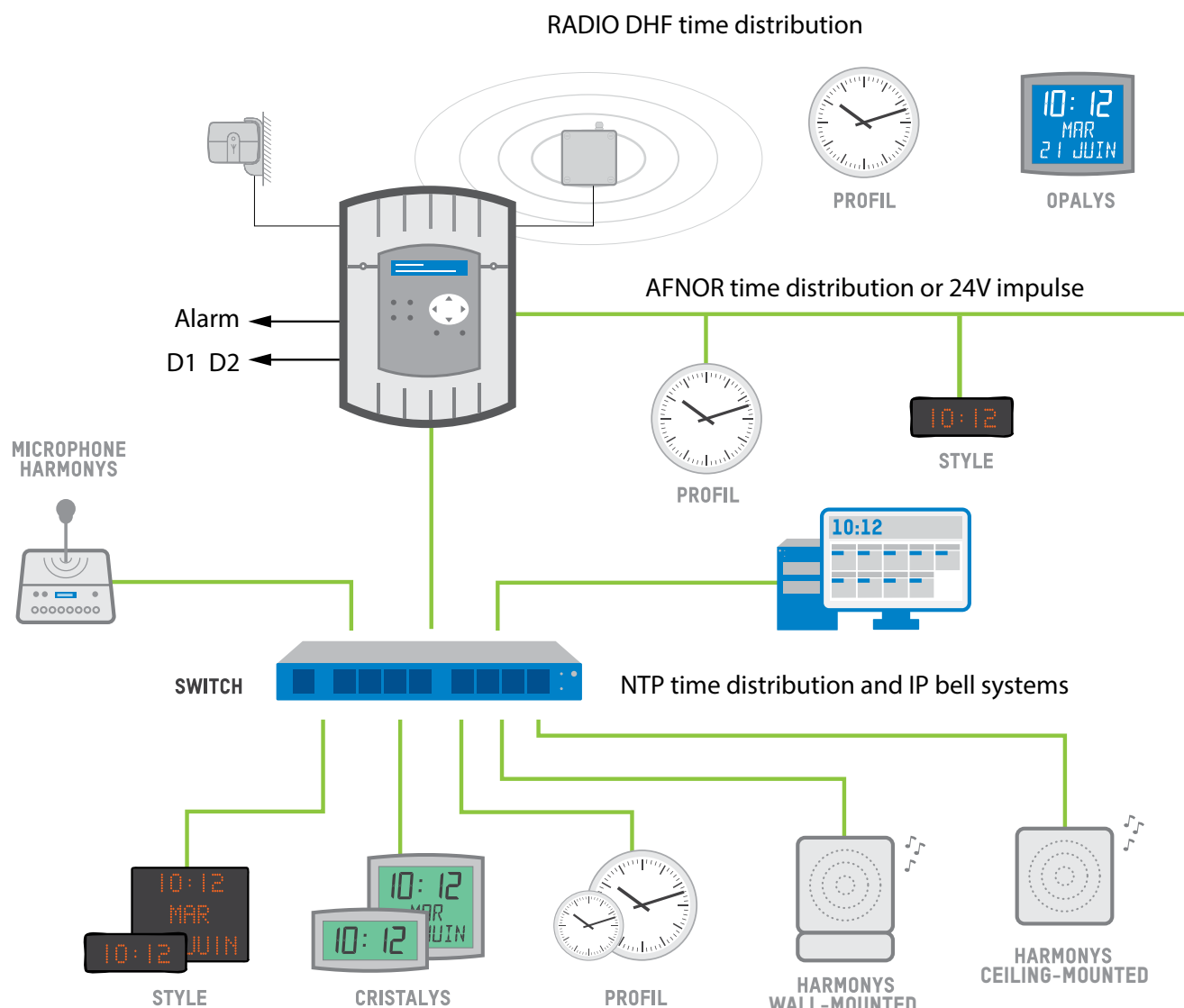
MANAGEMENT

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

IP..... V4.

SNMP..... V2C (Trap).

SCHEMATIC DIAGRAM



REFERENCES

Wall	Rack		
907 451	907 453		Sigma Mod 100-240VAC
907 452	907 454		Sigma Mod 24VDC
	907 456		Sigma Mod 36-72VDC

ACCESSORIES

- 907 025..... ALS radio antenna
- 907 026..... DCF radio antenna
- 907 037..... GPS antenna
- 907 512..... DHF transmitter
- 927 241..... DHF secondary transmitter

OPTION CARDS

References	Description
• 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

NOTE :

MICROSOFT does not guarantee any compatibility with the NTP protocol.

A Windows 2000 server does not allow you to synchronise a NTP client (in this case, use the NTP MONITOR Bodet software).

A Windows 2003 server can synchronise a NTP client.

Linux servers, on the other hand, are entirely compatible.