DESCRIPTION

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 FI, 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

- 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.................................................. TCXO (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 Fi 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.

Rack version

Wall-mounted version

Weight: 1.4 Kg

Weight: 1.2 Kg - Wall mounting with 2 screws.

Dimensions in mm

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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, 1AI, 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, Brodcast and Multicast supported.
- IP............................................... V4.
- SNMP.......................................... V2C [Trap].

COMMUNICATIONS
- SMTP............................................ E-mail.

SCHEMATIC DIAGRAM

RADIO DHF time distribution

AFNOR time distribution or 24V impulse

NTP time distribution and IP bell systems

MICROPHONE HARMONY

WALL-MOUNTED

CEILING-MOUNTED

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REFERENCES

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<th>Wall</th>
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<tbody>
<tr>
<td>907</td>
<td>451</td>
<td>Sigma Mod 100-240VAC</td>
</tr>
<tr>
<td>907</td>
<td>452</td>
<td>Sigma Mod 24VDC</td>
</tr>
<tr>
<td>907</td>
<td>453</td>
<td>Sigma Mod 36-72VDC</td>
</tr>
</tbody>
</table>

ACCESSORIES

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

OPTION CARDS

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

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.