

Since 1869, four generations of dedicated employees have been succeeding one another with the same passion for time Measuring and Controlling. Techniques have changed and technology has evolved yet our passion and commitment to the highest level of craftsmanship and innovation remains.

Today, BODET puts its expertise at your service to offer innovative solutions and to guarantee the installation and maintenance of your systems.



Research and development

Production

Assembly



Bodet reaches business Worldwide

Bodet exports to more than 60 countries through a network of 200 distributors, agents and OEM customers. We have established long

term business relationships with our partners to ensure future trading excellence. Bodet has set up 4 direct subsidiaries in Europe,

Belgium, Spain, Switzerland and the U.K., with shares in several more companies.



PO BOX 1
49340 Trémentines
FRANCE

Tel. (33) 2 41 71 72 00
Fax (33) 2 41 71 72 02
export@bodet.com
www.bodet.com



Made in France



Technical features and aesthetical aspects are subject to change without notice

SPRINGER: 02 41 55 06 35 - Réf. 655381 A/0612

NTP Time Distribution over Ethernet network



NTP TIME SYNCHRONISATION

NTP (Network Time Protocol) allows the synchronisation of computers, network servers and automated systems. This synchronisation is provided by a NTP time server which has its own IP address and sends periodically or upon request the same UTC (GMT) time to all associated devices.

Bodet offers a full line of NTP slave clocks, both analogue and digital.

The parameters of each clock are set to display the local time and the clock can operate on its own time base if the NTP signal were to be lost.

The number of clocks or computers that can be synchronised by NTP time distribution is unlimited. Each clock gets its power through the network using (POE) or can be individually powered (230V AC or TBT). The recommended cabling is CAT 5 or CAT 6 (maximum cable length: 100 metres).

SIGMA MOD NTP SERVER



SIGMA MOD is a NTP time server (client and server) synchronised by radio signal (GPS, DCF, France Inter ...).

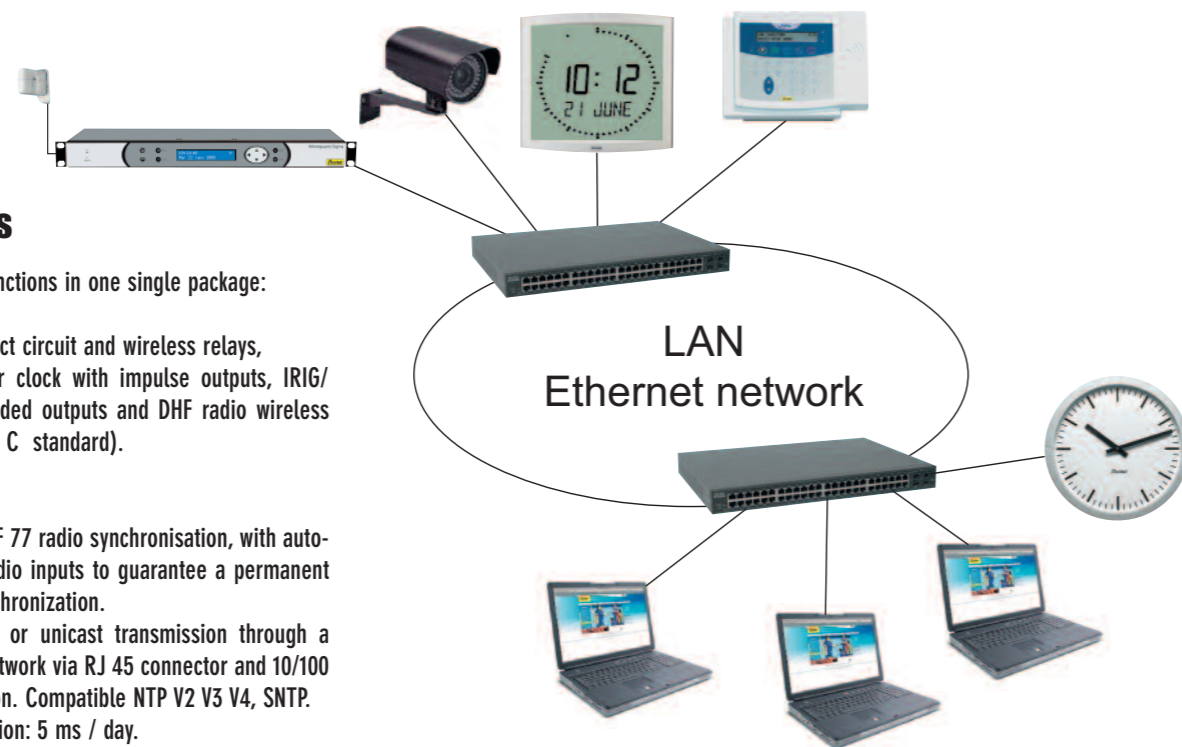
SIGMA MOD enables a network to be synchronised independently from the Internet (stratum 1).

SIGMA MOD is a standalone, accurate and reliable time server.

Available in 2 versions: 1U rack version and wall mounted version.

Configuration over IP network

Supplied with PC software that allows it to be programmed through the network.



Main advantages

SIGMA MOD combines 3 functions in one single package:

- NTP client and server,
- Scheduler with dry contact circuit and wireless relays,
- Time distribution master clock with impulse outputs, IRIG/AFNOR or ASCII time coded outputs and DHF radio wireless outputs (AFNOR 87 500 C standard).

- GPS or FI 162 radio or DCF 77 radio synchronisation, with automatic switching of the radio inputs to guarantee a permanent and reliable external synchronization.

- NTP broadcast, multicast or unicast transmission through a 10/100 Base T Ethernet network via RJ 45 connector and 10/100 (IP V4) automatic detection. Compatible NTP V2 V3 V4, SNTP.

- GPS or radio synchronisation: 5 ms / day.

Standalone time base with TCXO quartz 0.1 sec / day at 25°C.

Inputs / Outputs

- Inputs: GPS, FI 162, DCF 77
- 3 relays circuits 1 R/T 2 T
- 1 RJ 45 input/output for IP connection
- Time outputs: 1 AFNOR output, 1 24V min impulse output, 1 DHF transmitter output
- 1 USB port for program backup and update.

Option Cards:

- 3 AFNOR outputs
- 2 RS 232/422 outputs
- 3 programmable relays
- 1 impulse output
- 1 AFNOR input
- 3 contact inputs

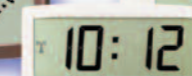
SLAVE CLOCKS

Cristalys

CRISTALYS range: LCD digital clocks for indoor use. Power supply through PoE Ethernet network.



Cristalys Ellipse
Display 6 cm and 4 cm



Cristalys 7
Display 7 cm



Cristalys 14
Display 14 cm



Cristalys Date
Display 7 cm and 5 cm



Opalys

OPALYS range: LCD backlit digital clocks for indoor use. Power supply through PoE Ethernet network.



Opalys Ellipse
Display 6 cm and 4 cm



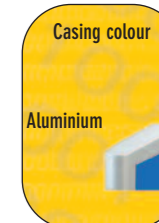
Opalys 7
Display 7 cm



Opalys 14
Display 14 cm



Opalys Date
Display 7 cm and 5 cm



Profil

PROFIL range: analogue clocks for indoor or outdoor use according to model. Power supply through PoE Ethernet network for indoor models. 230V AC power supply for lighting of the outdoor models.



Profil 950 - 30 cm diameter
for indoor use.



Profil 940 - 40 cm diameter
for indoor or outdoor use.



Profil 960 - 60 cm diameter
for indoor or outdoor use
(outdoor model needs a 230V AC supply for lighting).



Style

STYLE range: led digital clocks for indoor or outdoor use. Power supply through PoE Ethernet network for all Style models except Style 12 (230V AC power supply).



Style 5
Display 5 cm



Style 5 S
Display 5 cm

Style 5 Date
Display 5 cm



Style 7
Display 7 cm

Style 7 Ellipse
Display 7 cm



Style 7 Date
Display 7 cm

Style 12
Display 12 cm



+ Power supply 230V AC

