

PC and servers synchronisation with high accuracy



NeoClock is a radio controlled clock which synchronises the date and hour of your PC or server with the data of a reference atomic clock (drift inferior to ± 1 second every 30 million years).

Contrary to GPS receivers, its installation is very easy and fast, because the NeoClock can be place inside a building. It is connected to serial port of a computer which become the time server of all client computers of the network.

■ High precision time synchronisation

The source of the time data broadcast by the german DCF77 radio transmitter is an atomic clock with a drift inferior to 1 second every 30 million years.

■ Dual antenna system

The NeoClock receiver is equipped with 2 antenna systems, independent and very sensitive to guarantee the best reception of the signal whatever the geographical situation of the NeoClock with regard to the transmitter.

■ Autonomous quartz clock

If the radio signal is disturbed, NeoClock automatically switches to the data from its own quartz clock with battery. This quartz clock is synchronised at each good reception of the time data from the atomic clock.

■ Reliability of the time data

The time data received by radio waves are entirely controlled before validation : numerous consistency tests, 6 parity bits checked, comparison of two successive data sequences and precise timing control of all the received signals.

■ Automatic daylight saving time adjustment

■ Operating in numerous European countries

Two patented, extremely sensitive and efficient two-antenna systems are used to pick up the DCF77 signal within more than 1000 km around Frankfurt in Germany.

■ Easy to install

NeoClock is connected to the serial port of any PC compatible and needs no external antenna. Two red/green LEDs indicate the reception level as well as the status of the NeoClock receiver.

■ No external power supply

The NeoClock is powered trough the PC serial port.

■ Waterproof casing for industrial applications

Optionally, NeoClock is available with an industrial waterproof casing for outdoor installation or harsh environments.

■ Available for Windows and Unix

NeoClock is available with a windows client/server software witch enables to synchronise up to 5000 PCs on the network.

Application program are also available for Linux/UNIX.

■ For specific applications

The NeoClock for Windows version can also be used for specific applications. The receiver transmits the time data on its serial port. The user can choose the data format (ASCII or binary output) as well as the data transmission frequency.

NeoClock

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Advantages

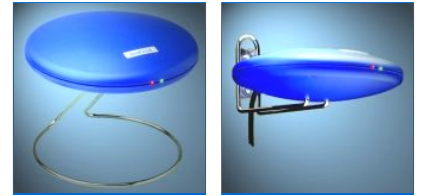
- Reliable and cost effective time synchronisation system
- Dual sensitive antenna-system
- Autonomous quartz clock with battery.
- Smart casing for office installation or optional waterproof casing for outdoor installation or harsh environments.
- No external power supply needed
- Client/server programs for Windows 9x, NT, 2000, XP, 2003 in 6 languages (FR, DE, EN, IT, ES, PT) enable the time synchronisation of the computer connected to the NeoClock receiver and up to 5.000 computers through the network or driver for UNIX/Linux (NTP protocol)
- Fast installation, communication and power supply over the COM port
- Surge protection on each lead
- Warranty: 3 years

Included

- 1 radio-controlled NeoClock receiver with 5 m long serial cable (SUBD-9 female)
- 1 table support and 1 wall support (office version)
- 1 wall support (industrial version)
- 1 CD-ROM with Windows (or UNIX/Linux) programs,
- 1 user guide in French, English and German



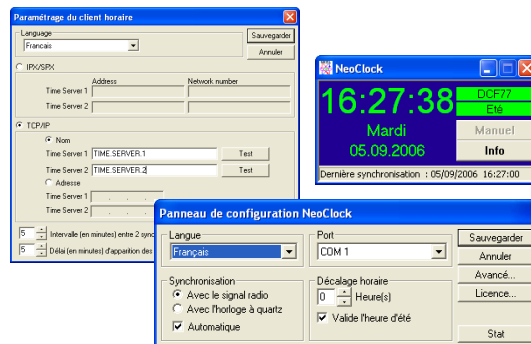
The industrial version, in a waterproof casing (IP67) can be used for outdoor installation or harsh environment.



The office version includes 1 table support, 1 wall support and serial cable.

Current applications

- Manufacturing process's control
- Access control
- Email time-stamping
- Scheduler
- Files backup
- Financial transfer
- Files and database time-stamping.



Windows Client/Server programs:

- As application for Windows 95/98 and ME
- As service for Windows NT, 2000, XP and 2003
- Synchronisation of up to 5.000 PCs

DCF77 signal cover

The DCF77 transmitter is located in Mainflingen near Frankfurt in Germany. It broadcasts time data from the atomic clock of the Physics and Metrology Institute of Brunswick.

This clock is the German atomic time and contributes to the establishment of the International Atomic Time (IAT).

Its theoretical drift is inferior to 1 second every 30 million years.

The geographical position of the transmitter and its broadcast power of 50 kW enables to pick up the signal within about 1.500 km around Frankfurt.

