



## Meinberg Radio Clocks

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## DCF600HS: DCF77 radio clock for 35mm DIN mounting rail.

DCF77 radio clock with serial RS232 interface, pulse per second, pulse per minute and integrated DCDC converter for 19...72VDC operating voltage in plastic housing for DIN mounting rail.

### Key Features

- Internal DCDC converter for 19..72VDC operating voltage
- Pulses per second and per minute
- RS232 interface
- Receiver status LEDs
- DCF77 radio clock

### Description

RS232 interface via 9 pin SUB-D female connector. Pulse per second and pulse per minute. These pulses are accessible via the ten pole screw terminal.

#### RS232 Output

An asynchronous serial port can be used to transmit information on date and time to other devices. The clock is configured to send time messages automatically with 9600 baud and with a framing of 7E2 once per second.

#### Pulse Output

After DCF77 synchronization, a pulse per minute and a pulse per second, with a pulse duration of 0.2 seconds, will be switched on. The generation of the pulses will be maintain for 12 hours if the DCF77 receipt is disturbed. Thereafter the pulses will be deactivated.

#### Housing

The receiver module is mounted in a plastic housing for 35mm DIN mounting rails. Two status LEDs (for modulation and free-running mode), the BNC antenna connector and a D-SUB9 connector for the serial RS232 interface are integrated in the front side of the housing.

#### Operating Voltage

The system requires an operating voltage of 19...72V/DC witch is applied via two contacts of the integrated screw terminal. The receiver is DC isolated due to an internal DCDC converter, the isolation voltage is 1,5KV DC.

## Characteristics

<b>Type of receiver</b>	Narrowband straight receiver with automatic gain control, Bandwidth: approx. 40Hz
<b>Type of antenna</b>	Scope of supply includes an active ferrite antenna AI01 and 5m of RG174 coaxial cable with BNC male connectors. Optional: AW02 with RG58, other length of cable
<b>Status info</b>	Modulation visualized by LED. Free running state visualized by LED after switching to free running quartz clock mode
<b>Reception Control</b>	Multiple check of received time telegram Plausibility control by using two complete time telegrams
<b>Pulse outputs</b>	Pulse per second and pulse per minute (optocoupler), pulse width: 200 msec
<b>Interface</b>	Single serial RS232 interface
<b>Data format of interfaces</b>	Baudrate: 9600 baud Framing: 7E2 Output string: 32 ASCII characters with date, time and status information
<b>Physical dimensions</b>	73,2mm x 45mm x120mm (width x height x depth)
<b>Electrical connectors</b>	9 pin sub D female connector BNC female connector 10 pole screw terminal for connecting the pulse outputs and the power supply
<b>Power supply</b>	19....72VDC
<b>Current consumption</b>	approx. 100mA
<b>Form Factor</b>	Dold Enclosure type KO4762, IP40 protected
<b>Ambient temperature</b>	0 ... 50°C / 32 ... 122°F
<b>Humidity</b>	Max. 85%
<b>Options</b>	Driver software for Windows XP®, Windows 2000®, Windows NT®, Novell and UNIX (NTP Freeware)
<b>RoHS-Status of the product</b>	This product is fully RoHS compliant
<b>WEEE status of the product</b>	This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.

### Manual

The english manual is available as a PDF file: [[1](#)][Download \(PDF\)](#)

**Links:**

[1] <http://www.meinberg.de/download/docs/manuals/english/dcf600hs.pdf>