



Meinberg Radio Clocks

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C600RS: DCF77 radio clock with serial RS232 interface

Serial DCF77 radio clock with integrated power supply and free running clock in plastic housing and integrated power supply (incl. antenna and 5m cable)

Key Features

- Integrated Power Supply
- Pulses per second and per minute
- 20mA input/output circuits
- RS-232 interface
- Receiver status LEDs
- Buffered hardware clock
- DCF77 radio clock

Description

The radio remote clock C600RS has been designed for applications where only the serial interface is used to transmit information on date and time to other devices. The clock has an enhanced LF receiver and is manufactured using surface mounting technology (SMT). The electronic assembly is mounted in a plastic case with four LEDs in the front panel which let the user monitor the clock's status.

RS232 interface and 20mA input/output circuits. Pulse per second and pulse per minute. These pulses are made available at the DB25 connector via optocoupler outputs. The P_SEC pulse is also available with RS-232 level (-3..12V/+3..12V).

Characteristics

Type of receiver	Narrowband straight receiver with automatic gain control, Bandwidth: approx. 40Hz
Type of antenna	Scope of supply includes an active ferrite antenna AI01 and 5m of RG174 coaxial cable with BNC male connectors. Option: [1] AW02 with RG58 and patch cord, other length of cable
Status info	Modulation and field strength visualized by LEDs Free running state visualized by LED after switching to free running quartz clock mode
Reception Control	Multiple check of received time telegram Plausibility control by using two complete time telegrams
Pulse outputs	Pulse per second and pulse per minute (optocoupler), pulse width: 200 msec
Interface	Two independent serial RS-232 / 20mA interfaces, configurable
Data format of interfaces	Baudrate: 600, 1200, 2400, 4800, 9600, 19200 baud Framing: 7E1, 7E2, 8N1, 8N2 1 active/passive 20mA current loop output (selectable) 1 active/passive 20mA current loop input (selectable) Output string: 32 ASCII characters with date, time and status information
Physical dimensions	57mm x 160mm x 80mm (height x width x depth)
Electrical connectors	25 pin sub D female connector BNC female connector power cord receptacle
Power supply	230 VAC/50Hz Optionally other supply voltages are possible - 12 or 24 VDC for example.
Backup battery type	In case of supply voltage failure the on-board RTC keeps the time based on XTAL for more than 150 hours (buffer capacitor) Optional: lithium backup battery (life time: 10 years)
Current consumption	ca. 20mA
Driver / Software	Software and Driver free of charge for common Operation Systems like Windows, Novell and UNIX (Linux) on USB Storage or as Download on [2] Meinberg Software Download Page .
Form Factor	Rolec TBA 084, IP40 protected
Ambient temperature	0 ... 50°C / 32 ... 122°F
Humidity	Max. 85%
Scope of supply	Scope of supply includes an active ferrite antenna [3] AI01 and 5m of RG174 coaxial cable with BNC connectors. Option: [1] AW02 with RG58 and patch cord, other length of cable Holder for 35mm rail mount

Warranty	Three-Year Warranty
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RoHS-Status of the product	This product is fully RoHS compliant
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WEEE status of the product	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.
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Manual

The english manual is available as a PDF file: [4][Download \(PDF\)](#)

Links:

[1] <https://www.meinbergglobal.com/english/products/dcf77-outdoor-antenna.htm>

[2] <https://www.meinbergglobal.com/english/products/>

[3] <https://www.meinbergglobal.com/english/products/dcf77-indoor-antenna.htm>

[4] <https://www.meinbergglobal.com/download/docs/manuals/english/c600rs.pdf>