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C51: DCF77 radio clock with RS232 interface and integrated power supply (incl. antenna and 5m cable)

Serial DCF77 radio clock with integrated power supply and free running clock in plastic housing.

Serial DCF77 radio clock with integrated power supply and free running clock in plastic housing. 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).

Important Note

This product is no longer available. We will of course continue to provide support for units that have already been purchased and are still in use. Please contact our [1]Sales Team for further details.

This product has been discontinued and has been replaced with: [2]

Key Features

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

Characteristics

Receiver Type	Narrowband tuned radio frequency receiver with automatic gain control, reception frequency: 77.5 kHz, bandwidth approx. 40 Hz
Status Indicators	Modulation and field strength visualized by LEDs Free running state visualized by LED after switching to free running quartz clock mode
Type of Antenna	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
Reception Monitoring	Incoming time string undergoes multiple checks Plausibility test using two full consecutive time strings
Pulse Outputs	Pulse per second and pulse per minute (optocoupler), pulse width: 200 msec
Interface	Single serial RS-232 interface
Serial Time String Output	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
Electrical Connectors	25 pin sub D female connector BNC female connector power cord receptacle
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)
Operating Voltage	230V/50Hz
Current Draw	ca. 20mA
Form Factor	Rolec TBA 084, IP40 protected
Physical Dimensions	57mm x 160mm x 80mm (height x width x depth)
Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Options	[3]**Driver software for Windows, Novell and UNIX (NTP Freeware)**
RoHS Status of Product	This product is fully RoHS-compliant.
WEEE Status of Product	This product is handled as a B2B (Business to Business) category product. To ensure that the product is disposed of in a WEEE-compliant fashion, it can be returned to the manufacturer. Any transportation expenses for returning this product (at end-of-life) must be covered by the end user, while Meinberg will bear the costs for the waste disposal itself.

Manual

The English manual is available as a PDF file: [4]**Download (PDF)**

Links:

[1] mailto:sales@meinberg.de

[2] https://www.meinbergglobal.com/english/archive/c600rs.htm

[3] https://www.meinbergglobal.com/english/products/

[4] https://www.meinbergglobal.com/download/docs/manuals/english/c51.pdf