



## Meinberg Radio Clocks

Lange Wand 9  
31812 Bad Pyrmont, Germany  
Phone: +49 (5281) 9309-0  
Fax: +49 (5281) 9309-30  
<https://www.meinbergglobal.com>  
[info@meinberg.de](mailto:info@meinberg.de)

## 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This product is no longer available and may have been replaced by a newer product. 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 Department](#) 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

<b>Receiver Type</b>	Narrowband tuned radio frequency receiver with automatic gain control, reception frequency: 77.5 kHz, bandwidth approx. 40 Hz
<b>Status Indicators</b>	Modulation and field strength visualized by LEDs Free running state visualized by LED after switching to free running quartz clock mode
<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>Reception Monitoring</b>	Incoming time string undergoes multiple checks Plausibility test using two full consecutive time strings
<b>Pulse Outputs</b>	Pulse per second and pulse per minute (optocoupler), pulse width: 200 msec
<b>Interface</b>	Single serial RS-232 interface
<b>Serial Time String Output</b>	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
<b>Electrical Connectors</b>	25 pin sub D female connector BNC female connector power cord receptacle
<b>Backup Battery Type</b>	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)
<b>Operating Voltage</b>	230V/50Hz
<b>Form Factor</b>	Rolec TBA 084, IP40 protected
<b>Current Draw</b>	ca. 20mA
<b>Physical Dimensions</b>	57mm x 160mm x 80mm (height x width x depth)
<b>Supported Temperature</b>	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)
<b>Supported Humidity</b>	Max. 85 % (non-condensing) at 40 °C
<b>Options</b>	[3] <a href="#">Driver software</a> for Windows, Novell and UNIX (NTP Freeware)
<b>RoHS Status of Product</b>	This product is fully RoHS-compliant.
<b>WEEE Status of Product</b>	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/products/c600rs.htm>

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

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