



#### **Meinberg Radio Clocks**

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# VME31: DCF77 Radio Clock (VME bus)

DCF77 Radio Clock VME31 with VME bus interface

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### **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This product is no longer available and may have been replaced by a newer product.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.

### **Key Features**

- Periodic interrupts
- 2,5mm LED-display
- VME Bus interface
- Reception status indicated by LED
- Buffered hardware clock
- Settable Base Address



## 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	DCF77 indoor antenna Al01
Display	8-digit, 7-segment LED display (2.5 mm)
Synchronization Time	2
Accuracy free run	Accuracy of the quartz base operation: ±1.10-5
Reception Monitoring	Incoming time string undergoes multiple checks Plausibility test using two full consecutive time strings
Interface	VME Bus; A16; D8; Slave Access: Short Supervisor I/O (2Dh), Short Non-Privileged I/O (29h) Interrupt Levels: IRQ1IRQ7, programmable Periodic Interrupts: None, 10msec, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable
Serial Time String Output	16 bytes in 1k-block, BCD coded Byte
Interrupts	None, 10msec, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable
Dimensions of the front panel	standard: 4HP/20mm, 6U/261,8mm, alternative: 4HP/20mm, 3U/128.4mm
Electrical Connectors	96-pin DIN 41612 connector
Antenna Connector	SMB subminiature coaxial connector
Power Consumption	1,6 W
Backup Battery Type	In case of supply voltage failure the on-board RTC keeps the time based on XTAL for approx. 4 weeks
Cable Type	coaxial cable RG174 for indoor use (SMB-, BNC-connector)
Operating Voltage	+5 V DC
Current Draw	ca. 320 mA
Board type	Eurocard
Board Dimensions	160 mm x 100 mm, 1,5 mm Epoxy
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
Contents of Shipment	Scope of supply includes an active ferrite antenna [2] <u>Al01</u> and 5m of RG174 coaxial cable with BNC connectors. Optional: [3] <u>AW02</u> with RG58 and patch cord, other length of cable

#### 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/dcf77-indoor-antenna.htm

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

[4] https://www.meinbergglobal.com/download/docs/manuals/english/vme31.pdf