



Meinberg Radio Clocks

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GPS/XHS: Satellite Receiver with integrated power supply for DIN Mounting Rail

The module is suitable for applications that only need a serial RS-232 interface for synchronisation.

The satellite receiver with integrated power supply is assembled in an aluminium profile case for 35 mm DIN mounting rail. The module provides a serial RS-232 interface.

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This product is no longer available and may have been replaced by a newer product.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

- RS-232 interface
- Included GPSANTv2 antenna uses downconverter technology to enable long transmission routes of up to 1100 m (1200 yards)
- DC-insulated antenna circuit
- Remote control and monitoring with included PC-software (COM0)
- Aluminium profile case for 35mm DIN mounting rail
- Flash-EPROM with bootstrap loader

Characteristics

Receiver Type	12 channel GPS C/A-code receiver
Status Indicators	Fail-LED shows that the internal timing has not been synchronized or that a system error occurred Lock-LED shows that the calculation of the position has been achieved after reset
Type of Antenna	Included [3] GPSANTv2 antenna with innovative downconverter technology that allows transmission routes of up to 300 m using RG58 cable, 700 m using RG213 cable, and 1100 m using H2010 Ultraflex cable
Synchronization Time	Max. 1 minute in normal operating conditions Max. 25 minutes (average 12 minutes) upon first initialization or in the absence of saved satellite data
Interface	Single serial RS-232 interface
Serial Time String Output	Baudrate: 300 to 19200 baud Framing: 7N2, 7E1, 7E2, 8E1, 8N1, 8N2 Time string: Meinberg Standard, Meinberg GPS, SAT, Uni Erlangen (NTP), SPA, NMEA0183 (RMC), Computime
Electrical Connectors	Female Sub-Min-D connector for serial interface power cord receptacle for AC-line
Antenna Connector	BNC connector
Power Consumption	ca. 4W
Backup Battery Type	When main power supply fails, hardware clock runs free on quartz basis, almanac data is stored in RAM Life time of lithium battery min. 10 years
Operating Voltage	GPS180DHS: 20 - 60 V DC GPS180AHS: 100 - 240 V AC, 50 ... 60 Hz GPS180DAHS: 100 - 240 V DC, 100 - 240 V AC
Firmware	Flash-EPROM, bootstrap loader
Physical Dimensions	105 mm x 85 mm x 104 mm (h x w x d) for 35mm DIN mounting rail
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
Warranty	Three-year warranty
Options	- second independant interface as RS-232, RS-485 oder fiber optic - PPS with TTL level into 50 Ohm - PPS as fiber optic output - 10 MHz with TTL level into 50 Ohm - 10 MHz - 0.5 Vrms into 50 Ohm - oscillator: OCXO LQ up to OCXO HQ, specifications look at [4] oscillator options

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: [5][Download \(PDF\)](#)

Links:

- [1] <mailto:sales@meinberg.de>
- [2] <https://www.meinbergglobal.com/english/products/gps165.htm>
- [3] <https://www.meinbergglobal.com/english/products/gps-antenna-converter.htm>
- [4] <https://www.meinbergglobal.com/english/products/specs/gpsopt.htm>
- [5] <https://www.meinbergglobal.com/download/docs/manuals/english/gps180xhs.pdf>