



Meinberg Radio Clocks

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GPS180XHS: Satellite Receiver with integrated power supply for DIN Mounting Rail

The module is suitable for applications that only need a serial RS232 interface for synchronization.

The satellite receiver with integrated power supply is assembled in an aluminium profile case for 35mm DIN mounting rail. The module provides a serial RS232 interface.

Key Features

- RS232 interface
- Meinberg GPS Antenna/Converter Unit connected with up to 300m of standard coaxial cable RG58
- 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

| | |
|----------------------------------|---|
| Type of receiver | 12 channel GPS C/A-code receiver |
| Type of antenna | Remote powered [1] GPS antenna/converter unit , up to 300m distance to antenna with RG58 and up to 700m distance with RG213 cable |
| Status info | 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 |
| Synchronization time | Max. 1 minute in normal operation mode, approx. 12 minutes after a cold start (discharged buffer battery) |
| Interface | One serial RS232 interface |
| Data format of interfaces | 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 |
| Physical dimensions | 105 mm x 85 mm x 104 mm (h x w x d) for 35mm DIN mounting rail |
| Electrical connectors | Female Sub-Min-D connector for serial interface power cord receptacle for AC-line |
| Antenna connector | BNC-connector |
| Power supply | GPS180DHS: 19 ... 72VDC GPS180AHS: 100 ... 240VAC, 47 ... 63Hz GPS180DAHS: 100 ... 240VDC, 100 ... 240VAC |
| 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 |
| Firmware | Flash-EEPROM, bootstrap loader |
| Ambient temperature | 0 ... 50°C / 32 ... 122°F |
| Humidity | Max. 85% |
| Warranty | Three-Year Warranty |
| Options | <ul style="list-style-type: none"> - second independant interface as RS232, RS485 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 [2]oscillator options |

RoHS-Status of the product This product is fully RoHS compliant

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.

Manual

The english manual is available as a PDF file: [3][Download \(PDF\)](#)

Links:

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

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

[3] <https://www.meinbergglobal.com/download/docs/manuals/english/gps180xhs.pdf>