



Meinberg Radio Clocks

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VP100/20: LED Large Display (serial/network connected)

LED Large Display VP100 optional as [1][NTP slave clock VP100NET](#)

Key Features

- Stand Alone Clock
- 20 mA Interface
- 50mm LED Display for Time and Date
- RS-232 interface

Description

Large display VP100/20 with good visibility and 50mm height LED characters, working as:

radio clock with integrated DCF77 receiver, DCF indoor antenna AI01 and 5m cable (standard) or, by customers specifications, with an external outdoor antenna AW02. Antenna cables can be prefabricated as required. The connection to the external antenna can be done via BNC connector at the rear panel of the display

* free running clock (with or without automatic changeover in daylight saving)

* or as NTP display (VP100/20/NET)

Text messages can be displayed: fixed, flashing or running characters, programmable via PC

Characteristics

Display	LED-Matrix Display (7 dots high) for time and date 50mm character height Without RF signal the clock runs on XTAL with an accuracy of $\pm 1 \cdot 10^{-5}$, indicated by LED
Interface	One serial RS232/20mA interface
Serial Time String Output	Baudrate: 9600 Baud Dataformat: 7E2 1 active/passive 20mA current loop output (selectable) 1 active/passive 20mA current loop input (selectable) [2] Output string : 32 ASCII characters with date, time and status information
Electrical Connectors	2 x 25-pin DSub female connector RJ-45 Jack (only VP100/20/NET) BNC antenna connector (only VP100/20) 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 100 hours
Operating Voltage	85-264VAC (50/60Hz) / 120-375VDC
Form Factor	Plastic coated steel sheet case, black (optional: white), protection, IP30 protected
Physical Dimensions	996mm x 100mm x 60mm (width x height 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
Contents of Shipment	VP100/20 LE-Display, printed manual, power cord and angle brackets for wall mounting (for a vertically swiveling display).
Warranty	Two-Year Warranty
Options	Equipped with a network connector RJ45 in the rear panel and special software the VP100/20 can be used as a Slave Clock for Meinberg [3] NTP Time Server (VP100/20/NET).
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] <https://www.meinbergglobal.com/english/products/>
- [2] <https://www.meinbergglobal.com/english/products/specs/timestr.htm>
- [3] <https://www.meinbergglobal.com/english/products/ntp-time-server.htm>
- [4] <https://www.meinbergglobal.com/download/docs/manuals/english/vp100.pdf>