



SOLVIMUS

METERING SOLUTIONS

DATA SHEET MBUS-GEWB, WIDTH 3 MODULES

Version 1

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1. Product

MBUS-GEWB, Art. No. 500451



2. Application

Gateway for readout of meters and data transmission to distant data management systems (BMS) via Ethernet in BACnet/IP or BACnet/SC format

3. Interfaces

wM-Bus

Compliant to EN 13757-4/-3/-7 and OMS (modes: S, T, C, C/T), SMA connector for external antenna, frequency: 868 MHz, Listen mode (automatic creation of meters), transparent mode, handling of keys, decryption of meters

Ethernet

Compliant to IEEE 802.3, 10/100-Base-TX, RJ45 connector incl. status LEDs, Auto-MDIX

Modbus

Readout of meters via Modbus TCP, compliant to IEC 61158, using the Ethernet interface

4. LED indicators

2 status LEDs for status and activity and 2 LEDs for power supply and reception of data on the OMS interface

5. Software functions

The user interface of the software is available only in English.

As indicated for the firmware in the manual, update of the firmware via Ethernet incl. integrity check and authentication

Configuration

- Complete configuration via browser with HTTPS (HTTP possible) or SSH
- Creation of the meter list
- Mass deployment via HTTPS (HTTP possible) with Netdiscover
- Usage of OBIS codes
- Integrated OpenVPN client
- Extensive management of user access rights
- Configurable password directive
- Export and import of the configuration including certificate and key files
- Update via the web page (manually or semi-automatic via update server) or Netdiscover
- Print page for error analysis and documentation
- Extensive logging function

Data transmission to servers:

- BACnet/IP or BACnet/SC; BACnet objects: 5000

6. Processing unit

The processing unit is a microprocessor system:

- CPU: ARM9 architecture, 454 MHz clock frequency
- Memory: 128 MB RAM, 4 GB internal eMMC Flash
- Operating system: Linux
- Integrated RTC: backed-up for up to 7 days



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7. General properties

- Dimensions: 54 x 90 x 60 mm (W x H x D, without antenna socket), 3 modules wide
- Installation: DIN rail 35 mm (IEC 60715), arbitrary orientation
- Mass: 100 g

8. Power supply

- 12..36 VDC, screw terminals
- Power consumption: 2W (idle state), max. 3 W
- Peak inrush-current: approx. 4 A

9. Environmental conditions

- Operation: 0..50 °C (daily average); -20..70 °C (short-time)
- Transport and storage: -20..70 °C
- Air humidity: 0..95 %, non-condensing

10. Conformity and safety

- 2014/53/EU Radio Equipment Directive
- 2011/65/EU RoHS Directive (incl. amendment 2015/863)
- Overvoltage protection (transient)
- Protection class III (IEC 61140)
- Degree of protection IP30 (IEC 60529)

11. Scope of delivery

- MBUS-GEWB

- 1 antenna for wM-Bus
- Quick Start Guide (print, in the packaging)
- Individual packaging

12. Contact

solvimus GmbH
Ratsteichstr. 5
98693 Ilmenau
Germany
Phone: +49 3677 7613060
E-Mail: info@solvimus.de
www.solvimus.de

Sales:

Phone: +49 3677 7613066
E-Mail: sales@solvimus.de

Support:

Phone: +49 3677 7613065
E-Mail: support@solvimus.de

Further contacts can be found on our website at:
<https://www.solvimus.de/en/company/solvimus/>

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