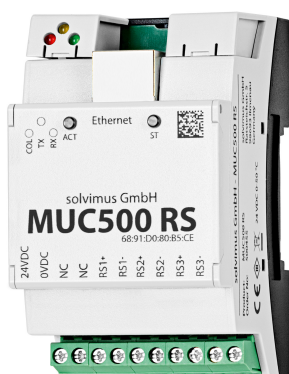




1. Product

MUC500 RS, Art. No. 500455



2. Application

Data concentrator for readout of meters and data transmission to distant meter data management systems via Ethernet.

3. Interfaces

RS-485

Quantity: 3, compliant to EIA-485, up to 32 remote units for each RS-485 interface, screw terminals, directly supported protocols: Modbus RTU, EN 62056-21, SML, transparent mode

Ethernet

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

Modbus

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

4. LED indicators

3 LEDs for power supply as well as receiving and sending on RS-485, and 2 LEDs for status and activity

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
- Unequal readout intervals for meters
- Multi Channel Reporting with 10 independent Report instances
- 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:

- TCP (unencrypted)
- TLS (encrypted)
- SMTP (encrypted and unencrypted)
- FTP (encrypted and unencrypted)
- MQTT (encrypted and unencrypted)
- Local file storage (local file)
- User-specific scripts, for instance with usage of cURL



Data transmission to clients:

- Modbus TCP¹
- BACnet/IP or BACnet/SC¹

File formats:

CSV (various variants), XML (various variants), JSON, user-specific formats (by transformation language XSLT)

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

7. General properties

- Dimensions: 54 x 90 x 60 mm (W x H x D), 3 modules wide
- Installation: DIN rail 35 mm (IEC 60715), arbitrary installation
- Mass: 118 g

8. Power supply

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

- 2014/30/EU EMV Directive
- 2014/35/EU Low Voltage 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

- MUC500 RS
- Quick Start Guide (print, in the packaging)
- Individual packaging with solvimus logo
- Dimensions: 108 x 67 x 62 mm (W x H x D)

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/homepage/>

A comprehensive description of the device is provided in the manual that can be accessed via the Help button on the configuration website of the device and can be downloaded free of charge and without registration from our homepage:
<https://www.solvimus.de/en/products/downloads-2/>



Our Quick Start Guide is also available upon request.

The solvimus GmbH works according to the principle of continuous improvement. The information given in this document is subject to change without prior notice and is provided without assertion,

warranty or guarantee, including as to accuracy, completeness or fitness for a particular purpose. The statements in this document are not to be construed as a guarantee or assertion. This document is protected under copyright law.

¹ Separate licence can be acquired.