

DATA SHEET MUC.ONE W

Version 1 Page 1/2

1. Product

MUC.one W, Order Nr. 500382



2. Application

Data concentrator for readout of meters and data transmission to distant meter data management systems via NB-IoT (narrowband mobile radio communication).

3. Interfaces

wM-Bus

Compliant to EN 13757-4/-3/-7 and OMS (modes: S, T, C, C/T), internal antenna, frequency: 868 MHz or 433 MHz or 169 MHz, Listen mode (automatic addition of meters), transparent mode, handling of keys, decryption of meters

NB-IoT (WAN)

Mobile radio: NB-IoT modem, LTE Cat-NB, internal antenna, card holder for micro SIM card, bands: LTE B1, B3, B5, B8, B20, B28

WLAN (WIFI)

Compliant to IEEE 802.11 b/g/n, centre frequency depending on channel: 2412-2484 MHz, internal antenna, function as access point

4. LED indicators

One LED each for status and accessibility of the access point $% \left({{{\rm{D}}_{{\rm{s}}}}_{{\rm{s}}}} \right)$

5. Software functions

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

As indicated for the firmware in the manal, update of the firmware incl. integrity check and authentication

Configuration

- Complete configuration via browser
- Creation of the meter list
- Mass deployment with Netdiscover via HTTP
- Unequal readout intervals for meters
- Reporting with selected formats and protocols
- Usage of OBIS-Codes
- Extensive management of user access rights
- Export and import of the configuration including certificate and key files
- Update via the web page or Netdiscover
- Print page for error analysis and documentation
- Extensive logging function

Data transmission to servers:

- TCP (unsecured)
- TLS (secured)
- HTTP POST (secured and unsecured)
- MQTT (secured and unsecured)

File formats:

CSV (various variants), XML-8, JSON



DATA SHEET MUC.ONE W

Version 1 Page 2/2

6. Processing unit

The processing unit is a microprocessor system:

- CPU: 32 bit LX7, up to 240 MHz clock frequency
- Memory: 320 kB RAM, 4 MB Flash
- Operating system: FreeRTOS
- Integrated RTC: backed-up for up to 7 days

7. General properties

- Dimensions: $80 \times 113 \times 60 \text{ mm} (W \times H \times D, without cable entry)$
- Installation: wall mounting, arbitrary orientation
- Mass: 220 g

8. Power supply

- 90..260 VAC, 50..60 Hz, spring terminal
- Power consumption: 1 W (idle state), max. 3 W
- Peak inrush-current: <40 A
- Galvanic isolation of interfaces and mains: $>\!3\ kV$

9. Environmental conditions

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

10. Conformity and safety

- 2014/30/EU EMC Directive
- 2014/35/EU Low Voltage Directive
- 2011/65/EU RoHS Directive (incl. amendment 2015/863)
- 2014/53/EU Radio Equipment Directive

- 1907/2006/EC REACH Regulation (Annex XVII April 28 2020)
- Overvoltage category II (EN 60664-1)
- Protection class II (IEC 61140)
- Degree of protection IP67 (IEC 60529)

11. Scope of delivery

- MUC.one W
- 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/

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.