



SOLVIMUS

METERING SOLUTIONS

DATA SHEET MUC.ONLY M

Version 1

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1. Product

MUC.only M, Art. No. 500390



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

M-Bus

Compliant to EN 13757-2/-3/-7 (all M-Bus meters are compatible), max. number of unit loads (UL): 3, baud rate: max. 9600 bps, spring terminal, primary and secondary addressing, manual creation of meters and scan

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 Power, Readout, and WIFI access point

5. Software functions

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

Update of the firmware including integrity check and authentication.

Configuration

- Complete configuration via browser
- Export and import of the configuration including certificate and key files
- Update via the web page
- Logging function for error analysis

Data transmission to servers:

- MQTT (encrypted and unencrypted)

File format:

Freely configurable by Lua scripts (e. g. CSV, XML, JSON; upon request).

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

7. General properties

- Dimensions: 125 x 150 x 60 mm (W x H x D, without cable entry)
- Installation: wall mounting
- Mass: 580 g (with batteries)



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8. Power supply

- 2 Lithium batteries 3.6 V, D cell
- Quiescent current: <100 nA

9. Environmental conditions

- Operation: 0..50 °C (daily average temperature); -20..70 °C (short-time)
- Transport and storage: max. 30 °C (recommended for optimum battery life)
- 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)
- Protection class III (IEC 61140)
- Degree of protection IP67 (IEC 60529)

11. Scope of delivery

- MUC.only M
- 2 primary cells ER 34615J D, LiSOCl₂, 3.6 V, D cell, 19 Ah, manufacturer: Jauch Quartz GmbH, Germany
- Individual packaging

12. Contact

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