

DATA SHEET

wM-Bus-Gateway-Batt-industry
SKU: 911131403

FEATURES

- wM-Bus
- LTE-M (CAT-M1) / NB-IoT
- NFC
- Long runtime through battery



OVERVIEW

The wM-Bus-Gateway-Batt-industry with LTE CAT-M1, CAT-NB1 and CAT-NB2 enables reliable connectivity in smart meter and industrial environments. The micro SIM card holder and alternative eSIM allow for flexible selection of the network operator.

Meter data is securely collected and forwarded in accordance with standards via the integrated wM-Bus interface and the OMS protocol. An integrated reed contact activates the device when the housing is closed, and attempts at tampering are prevented by the need for special tools to open it. The gateway can be conveniently configured on site via smartphone using an NFC tag.

- Mobile communications: LTE CAT-M1, CAT-NB1, CAT-NB2 via micro SIM or eSIM
- Radio protocols: wM-Bus (S, T, C) and OMS
- Power supply: high-performance battery
- Commissioning: Activation via nfc or reed contact without opening the housing
- Tamper protection: Housing only accessible with special tools
- Housing: For use indoors

Thanks to its robust design and long battery life, the gateway is ideal for smart metering and industrial IoT applications with low installation and maintenance requirements.

PLACE OF USE

- Indoors

TARGET GROUP

- Metering service provider
- Landlords

UNIQUE SELLING POINT

- Battery operation
- Low Power
- Commissioning in closed housing
- Tamper-proof design
- Digital nameplate

TECHNICAL DATA

MICROCONTROLLER/PROCESSOR

Processor	High-performance processor
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INTERFACES

LTE CAT-M1 / CAT-NB1 / CAT-NB2	B3, B8, B20
wM-Bus / OMS	868MHz
NFC-Tag	ISO/IEC 14443

ADDITIONAL PROPERTIES

Sensors	Battery charge status
Display elements	Piezo buzzer, 75dB@10cm 1x green LED
Control elements	Reed contact for maintenance mode

POWER SUPPLY

Voltage VDC	3~3,6VDC
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ENVIRONMENTAL CONDITIONS

Operating location	Indoor, protect from direct sun
Operating temperature	–20°C to +60°C
Storage temperature	–40°C to +60°C
Transport temperature	–40 °C to +60 °C
Gradient of temperature	5 K/min (avoid dew)
Relative humidity	Max. 70%, avoid dew
Height above sea level	up to 2000 m
Height above sea level (Storage/transport)	up to 3000 m, DIN 60204 / IEC 61131-2; at least 70 kPa Air Pressure
Gases	Avoid highly concentrated corrosive gases (e.g., H ₂ S, SO ₂ , Cl ₂ , HCl, etc.) → Corrosion of the sensor structure and sensitivity attenuation

DIRECTIVES

2014/53/EU	Radio Equipment Directive
2011/65/EU	Restriction of certain Hazardous Substances (ROHS)
2023/1542	Battery Directive

MECHANICAL STRUCTURE

Protection class housing	Protection against dripping water and dust in damaging quantities
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