



wMBus-NRG-Gateway-24V

Item number: 911131159



Features

- wM-Bus
- LTE-M (CAT-M1) / NB-IoT / 2G
- 24V External power supply

Overview

The wMBus-NRG-Gateway-24V with wM-Bus, LTE-M or NB-IoT interface is designed to collect and transmit precise and reliable measurement data. The device is suitable for use in residential and commercial buildings, both indoors and outdoors (IP65).

The wMBus-NRG-Gateway-24V is specially designed to collect data from energy and consumption meters with high frequency. This capability makes it possible to use the information obtained to directly control heating, ventilation and air conditioning systems. Especially in combination with photovoltaic systems and heat pumps, the wMBus-NRG-Gateway-24V supports innovative concepts such as the energy self-sufficient house or tenant electricity models.

The device efficiently collects measurement data from wM-Bus devices (sensors) and transmits it to a backend at variable intervals via a reliable wireless interface. At least 2000 telegrams per recording can be stored temporarily.

Place of use

- Outdoor
- Indoor
- Residential and commercial buildings

Target group

- Measurement service provider
- Housing management
- Planner

Unique selling point

- wM Bus Gateway with variable backend service
- Continuous recording and evaluation of meter data



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Technical data

Microcontroller/processor

Processor	Dual-core 32 bit Xtensa LX6 microprocessor
Flash	16MB
SRAM	320kB
ROM	128kB
SRAM in RTC	16 KB

Additional properties

Data sources	External wM-Bus sensors External OMS sensors
Control elements	Reset button Wake up button

Ambient conditions

Place of use	Indoors and outdoors, protect from direct direct sunlight
Working temperature	-40°C to +60°C
Storage temperature	-40°C to +80°C
Transport temperature	-40°C to +80 °C
Temperature change	5 K/min (no condensation permitted)
Relative humidity	Max. 70%, condensation must be excluded
Altitude above NHN	Up to max. 2000m
Altitude above NHN (storage/transport)	Up to 3000 m
Degree of contamination	Max. Pollution degree 2

Interfaces

LTE	
Frequencies/Bands	GPRS, GSM, CAT-M1, LTE CAT-NB2
WiFi	
Frequencies/Bands	IEEE 802.11b/g/n
Transmission power	2412MHz - 2484MHz
868MHz/ wM Bus/ OMS	
Frequencies/Bands	max. 20.5dBm
Transmission power	868MHz



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Further guidelines

2014/53/EU	Radio Equipment Directive
2011/65/EU	Restriction of certain Hazardous Substances (ROHS)
2012/19/EU	Waste of Electrical and Eletronic Equipment (WEEE)
EC 1907/2006	Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Mechanical structure

dimensions	200x200x39mm (+/-1mm)
Weight	435g
Protection class Housing	IP65 (DIN EN 60529:2014-09; VDE 0470-1:2014-09) ABS PA-
Material	765A

Power supply

Voltage VDC	24V
Power consumption I_{max}	1A
Current consumption P_{max}	4W