

Data sheet wMBus-NRG-Gateway-Batt



wMBus-NRG-Gateway-Batt

Item number: 911131157

Features

- wM-Bus
- LTE-M (CAT-M1) / NB-IoT / 2G
- Long battery life



Overview

The wMBus-NRG-Gateway-Batt with wM-Bus, LTE-M or NB-IoT interface is designed to collect and transmit precise and reliable measurement data. C-mode and S-mode can be read out separately. Whitelists can be used to filter measuring devices by serial number or manufacturer. Various schedules can be used to set the duration of the recording, the mode and the start of the recording.

The device is suitable for use in residential and commercial buildings, both indoors and outdoors (IP65). Even in areas with difficult reception conditions for wM-Bus and/or LTE, the wMBus-NRG-Gateway-Batt delivers outstanding performance.

The device efficiently collects measurement data from wM-Bus devices (sensors) and transmits it at configurable intervals via a reliable wireless interface to an individual backend or the pironex IoT cloud. Up to 2000 measuring device telegrams can be stored temporarily. Once installed, the device is maintenance-free and ready for use for several years.

The flexible configuration allows variable intervals, which means that the duration of use can be customised.

Place of use

- Outdoor
- Indoor
- Residential and commercial buildings

Target group

- Measurement service provider
- Housing management
- Planner

Unique selling point

- Customisable installation mode with live readout for a high reception rate with the first approach
- Use of one or two batteries depending on the desired readout interval



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Technical data

Microcontroller/processor

ProcessorDual-core 32 bit Xtensa LX6 microprocessorFlash16MBSRAM320kBROM128kBSRAM in RTC16 KB

Additional properties

Data sourcesExternal wM-Bus sensorsExternal 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, LTE 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

Supported modes C2+T2 or S2

Battery 2 connections for 1x high-capacity battery each

19Ah/20 Ah



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Further guidelines

2014/53/EURadio Equipment Directive2011/65/EURestriction of certain Hazardous Substances (ROHS)2012/19/EUWaste of Electrical and Eletronic Equipment (WEEE)EC 1907/2006Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Mechanical structure

dimensions200x200x39mm (+/-1mm)Weight555g (with one battery), 675g (with 2 batteries)Protection class HousingIP65 (DIN EN 60529:2014-09; VDE 0470-1:2014-09) ABS PA-Material765A

Power supply

 Voltage VDC
 3V - 3.7V (with battery)

 Power consumption Imax
 1A

 Current consumption Pmax
 4W

 Running time
 approx. 13 years with 200 sensors, 30 min. readout and average LTE reception with one battery