LPWAN WM-BUS Gateway

PRODUCT DESCRIPTION

This product was developed for a quick data transfer from an existing smart metering devices equipped with Wireless MBUS interface (WMBUS). On today's market, there are many vendors of smart meter devices which comes with WMBUS enabled features. The WMBUS interface is well know thanks to walk-in approach and collecting the data based on local presence of a data reader unit usually carried by physical person. As in many other branches, also LPWAN technology is capable to replace human effort and collect the data wirelessly, decode it on site, make fundamental analysis and forward it to a cloud over long range radio access technology

MAIN FEATURES

- Wireless MBus support with T1 and C1 auto selection
- In-built decryption if AES key is inserted
- Works with standard WMBUS meters
- Whitelist with upto 1500 records
- Serial number and AES keys internal database
- On site analytics over decrypted data, e.g. abnormal flow
- Remotely configurable over the downlink
- Bridge mode 1:1
- Gateway mode 1:N
- Decrypted or transparent data forward
- FOTA – FW update over the air
- Ultra-low power design, battery lifetime up to 10 years
- Accurate and secure data collection
- Easy to install, no cabling, activation over a magnet

USAGE

- Remote data collection from a meterdevices for invoicing purposes
- On sitedata analytics for abnormal values reaction
- Abnormal status on-line evaluation

Feature	Parameter
Housing	Bridge: IP65, 70 x 100 x 40 mm Gateway: IP65,78 x 120 x 45 mm
Radio access technology	LoRaWAN or NB-IoT
Battery	2 x ER26500, 3.6V/17Ah for Bridge, 2 x LS33600, 3.6V/34Ah for Gateway
Power consumption	LoRaWAN: max.60mA during transmission NBIoT: max.500mA during transmission WMBUS:max.10mA during reception Deep sleep: 4uA
Battery lifetime	Bridge: 10years with 6 transmissions/scans a day Gateway:10 years with 6 transmissions/80 scans a day
Antenna	Built-in helical 2dBi
WBMUS	C1 and T1 mode autoselection 868MHz EU band Configurable radio sensitivity Built in AES decryption

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