

WB169-MM



USAGE

The converter is designed for remote reading of electronic consumption meters (electricity meter, gas meter, calorimeter), which are equipped with M-Bus interface.

UNIT DESCRIPTION

The converter acts as an M-Bus Master on the bus segment where it is installed and up to 10 M-Bus Slave devices can be connected to it, e.g. power meters electricity, gas, water and other variables. At regular intervals, the converter acquires data from the connected meters and sends this data to the master system via the wM-Bus 169 radio network.

TECHNICAL PARAMETERS

Wireless interface

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|-------------------------|--------------------------------|
| • Frequency Band: | 169,400 - 169,475 MHz |
| • Wireless Technology: | Wireless M-Bus |
| • Protocols: | wM-Bus |
| • Modulation: | 2-GFSK, 4-GFSK |
| • Channel Width: | 12.5 or 50 kHz |
| • Transmission Power: | 500 mW |
| • Receiver Sensitivity: | - 109 dBm |
| • Data Rate: | 2,4 - 19,2 kBd |
| • Output Impedance: | 50 Ω |
| • Antenna: | external, SMA-female connector |

Data interface

- Physical interface: M-Bus
- Transmission speed: 300 - 9600 Bd
- Data protocols: M-Bus
- Maximum number of devices: 20

Power

- Power supply: DC 9 - 24V
- Maximum current: 500 mA
- Connector: clamps

Physical Properties

- Length: 58 mm
- Width: 54 mm
- Height: 90 mm
- Weight: 150 g

Operating Conditions

- Operating Temperatures: (-20 to +50) °C
- Storage Temperatures: (0 to +40) °C
- Relative Humidity: 90% (non-condensing)
- IP Rating: IP20

UART configuration

- UART Data Rate: 9.6 kbps
- Transmission method: Asynchronous
- UART parameters: 8 data bits, 1 stop bit, no parity
- Voltage Level: 3.6 V (CMOS)