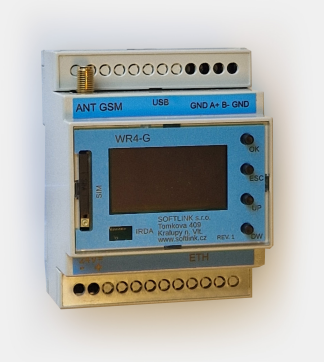
WR4-G



USAGE

The WR4-G reader is designed for reading registers of RS-485 serial interface meters using the Modbus RTU protocol and sending the received data via LTE technology.

UNIT DESCRIPTION

The WR4-G can be used to read standard Modbus registers of any power meter with RS-485 interface and support for Modbus RTU communication protocol. The reader can also be programmed to read non-standard table registers of specific meter series. In the current version, the meter reader supports reading of registers of the following meter series: NERIS (M)DVH 5x by ACEAN and AMT B3-FR4 by Applied Meters. The meter reads the meter registers into its memory at a configurable interval and sends them as a data file to the central system via the mobile operator's network.

TECHNICAL PARAMETERS

Wireless interface

- Frequency Band: 800, 850, 900, 1800, 2100, 2600
- Wireless Technology: GSM/GPRS/EDGE/HSPA+/LTE
- Protocols: NEP
- LTE Bands: B1, B3, B5, B7, B8, B20, B38, B40, B41
- Data Rate: 85.6 Kbps - 10 Mbps
- Output Impedance: 50 Ω
- Antenna: external, SMA-female connector

Ethernet interface

- Ethernet standard: IEEE 802.3
- Physical layer: 10/100 Base-T
- Ethernet connector: RJ-45

Data interface

- Physical interface: RS-485
- Transmission speed: 300 - 57 600 Bd
- Data protocols: M-Bus, IEC 62056, Modbus
- Maximum number of devices: 20

Power

- Power supply: DC 9 - 24V
- Maximum current: 200 mA
- Connector: clamps

Physical Properties

- Length: 58
- Width: 61
- Height: 87
- Weight: 200

Operating Conditions

- Operating Temperatures: (-20 to +50) ^{0}C
- Storage Temperatures: (0 to +40) ^{0}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)

USB configuration

- USB Data Rate: 115.2 kbps

IrDA configuration

- IrDA datarate: 115.2 kbps
- IrDA physical layer: IrDA 1.4