# SOFTLINK

## WB169-R4



#### USAGE

The converter is designed for remote reading of electronic consumption meters (electricity meter, gas meter, calorimeter) equipped with RS-485 interface.

#### UNIT DESCRIPTION

The transmitter reads meters with RS-485 bus interface and M-Bus, Modbus, or IEC62056 data format at adjustable intervals over the local RS-485 bus, converts the messages into a uniform wacoSystem format (NEP protocol), and sends them to the master remote reading system as radio messages.

The converter can be used to read up to six meters located on a single RS-485 bus. The transmitter reads individual meters with individually adjustable parameters (period, protocol, speed) and stores the received data in memory. With the set transmission period, the transmitter sends a summary message with all stored data over the radio network to the master server. Alternatively, the transmitter can also operate in "on-line" mode, where it sends data to the master server immediately after each meter reading. The transmitter can read up to four values from each meter, and can send up to 100 values at a time in a summary message.

The configuration parameters of the transmitter can be set using a configuration cable, or from a standard mobile phone via a Bluetooth wireless connection

### TECHNICAL PARAMETERS

#### **Wireless interface**

- Frequency Band:
- Wireless Technology:
- Protocols:
- Modulation:

169,400 - 169,475 MHz Wireless M-Bus wM-Bus 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:	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 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)

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