



- ◆ Simultaneous operation with 6 metering devices
- ◆ Free parameter configuration of each input
- ◆ Operation with various types of meters
- ◆ Tariff control
- ◆ Communication in compliance with ANSI/EIA 709.2-A-2000

The interface adapter MR8-PL is a field module designed for applications in the industry and utilities. It is suitable for use as a part of systems for remote reading and control of the consumption of electric and heat energy, water, gas etc. The module allows simultaneous two-way communication with six metering devices. The parameters of each communication channel can be freely configured which provides the possibility for operation with various types of metering devices and even with sensors with discrete output signal. The module has two digital outputs for tariff control and other specific functions. The device communicates with other system elements through low voltage power line in compliance with ANSI/EIA 709.2-A-2000. The connection reliability is ensured by using of up-to-date control solutions and powerful algorithms for digital signal processing and error correction.

2 YEAR
WARRANTY

SPECIFICATION

Communication channels	
Number	6
Electrical interface ⁽¹⁾	RS232
Transfer rate ⁽²⁾	2400 Bps
Connection ⁽³⁾	Individual
Outputs	
Number	2
Output signal	220 VAC / 2 A
Power supply	
Input voltage range	10 ÷ 15 VDC
Power consumption	
receive	≤ 1 W
transmit	< 4.5 W
Isolation from the bus	No
Connection	Note 4

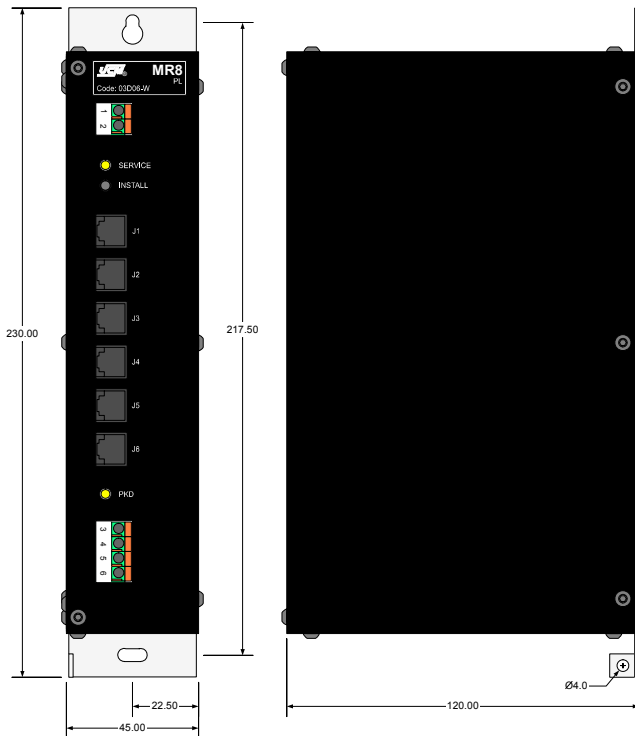
Control network	
Transfer rate	3600 bps
Frequency band ⁽⁵⁾	CENELEC A-band
General	
Operating temperature	from -20°C to +60°C
Storage temperature	from -30°C to +70°C
Case	Metal IP20
Weight	718 g
Dimensions	230x120x45 mm

Notes:

1. The electrical interface can be changed when necessary.
2. The transfer rate can be changed when necessary.
3. The available interface of the metering device defines the way the device will be connected to the adapter. Sometimes the use of additional external converters is necessary.
4. In order to ensure proper device functioning connect the power supply according to the instructions provided in this datasheet.
5. The frequency band is specified in accordance with the requirements for power line communication defined by the European Committee for Electrotechnical Standardization (CENELEC). This band is intended for exclusive use by utility companies.

MECHANICAL MOUNTING

All dimensions are in millimeters



ELECTRICAL INSTALLATION

Terminal №	
1	Power supply +
2	Power supply -
3	Output 1
4	Output 2
5	Line
6	Neutral
J1÷J6	For connecting metering devices

- ◆ All required safety measures shall be taken during electrical installation work of the device.
- ◆ Electrical installation work of the device shall be undertaken by qualified and certified engineering personnel.

- ◆ The interface adapter is mounted in a suitable place on a wall, panel or in a cabinet, on a flat surface in an arbitrary position.
- ◆ It is inadmissible to locate the device near heaters or other surfaces that are heated to high temperatures.
- ◆ Fastening is achieved by means of three galvanized rapid screws Ø3.5 mm with a cylindrical head and of suitable length.

SPECIFICATION

MR8 - PL

PL Power line communication