RR102 - Remote Reading Mini Meter

The Remote Reading Mini-Meter **RR102** is a single phase 20 (60)A watt-hour meter with integrated PLC (Power Line Communication) module for operation in Advanced Metering Infrastructure.

The Mini Meter – **RR102** measures electric energy consumption and transmits data over the power network using one way **P**ower **L**ine **C**ommunication (PLC) to a central point in the installation – concentrator – from which data is transmitted to the billing center by cellular communication – GSM/GPRS.

RR102 has LCD display showing meter data.

Features:

- 20(60)A , Class 2, direct measurement static watt-hour meter.
- One-way A-band **P**ower **L**ine **C**ommunication
- Non volatile **backup memory**.
- **Automatic calibration** (NO physical adjustment).
- Allows **T**ime **O**f **U**se tariff scheme.
- Periodically transmits accumulation data and status to the concentrator.
- Directly energized by power lines.
- Low power consumption.
- **16 mm²** wire terminals.
- Small size – 2 DIN width - rail mounted
- **Simple** and fast installation.
- **Cost effective.**

Fig.1. General view of RR102

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Technical specification

1.3.1. General	
Nominal Voltage (Un)	230V
Supply Voltage range	80% - 115% Un
Nominal Frequency (fn)	50Hz
Meter Consumption at Un	0.3 [W] – 6 [VAR] (Capacitive)
System connections	1 phase 2 wire
1.3.2. Measurement	
Class Index according to IEC62053-21	Class 2
Basic Current (Ib)	20A
Maximum continuous current (Imax)	60A
1.3.3. Environmental	
Temperature range	
operation	-10ºC to 55ºC
storage	-25ºC to 70ºC
Relative humidity (R.H.) for annual mean	< 75%
R.H. occasionally on some days	85%
1.3.4. Insulation Strength	
Protective Class ac. w. IEC62052-11	Class I I
1.3.5. Display	
Type	LCD
Format	8 Characters x 2 Lines
Character size	4.3mm x 2.95 mm
1.3.6. LED Indicator	
Flash rate	1000 imp/kWh
1.3.7. Communication Interface	
PLC Frequency range	"A"-band
PLC Method	Spread FSK
1.3.8. Case Protection/Weight	
Weight	145 g
Enclosure protection ac. w IEC60529	IP51
Protection for connection terminals	IP20

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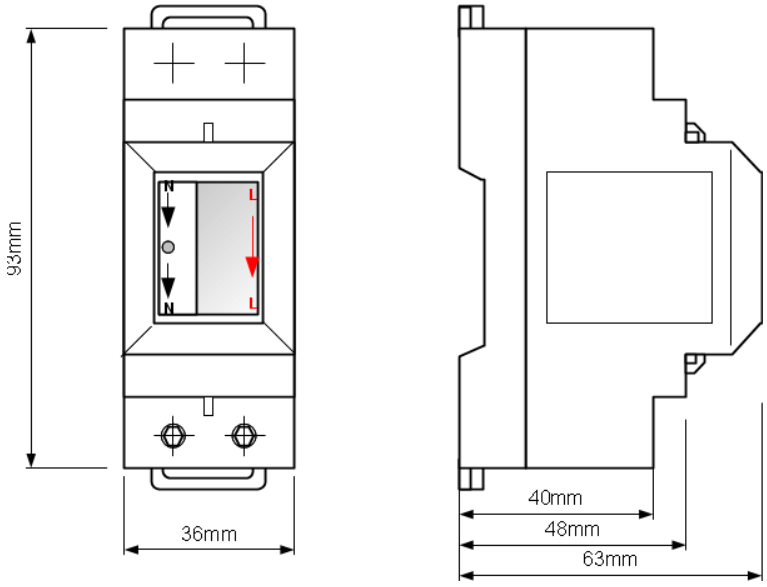
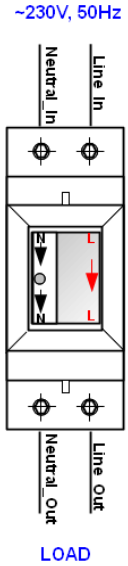
External Dimensions



Connections Diagram



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