



RR303-F 60A Mini Meter

The Mini Meter **RR303-F** is an innovative three phase compact electricity meter with advanced **Automatic Meter Reading (AMR)** and management features.

RR303-F measures electric energy consumption and transmits data over the power network using **two way Power Line Communication (PLC)** to a central unit – concentrator – from which data is transmitted to the billing center by cellular communication – GSM/GPRS.

RR303-F is capable of receiving data from the concentrator such as: **Time Of Use (TOU)** tables, power limit, real time clock.

RR303-F is capable of transmitting data to the concentrator such as: energy reading, status, **TOU** reading.

RR303-F operates simultaneously as meter and as repeater, amplifying and transmitting signals from neighboring units towards the concentrator over power network.

It accomplishes very high communication availability at any time from distant locations on the power network, eliminating the need for additional amplifiers.

RR303-F meters is mounted on DIN standard rail .

Optional: **RR303-F** can be supplied with an internal radio receiver using unlicensed **RF** communication, that reads near by **Water / Gas** meters and introduces **Water / Gas** data into PLC media for concentrator to receive and report.



Fig.1. General view of RR303-F



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Features:

- ◆ 20(60) A, Class2, direct measurement static watt-hour meter.
- ◆ Real two-way “A” band **Power Line Communication**
- ◆ Automatic calibration (NO physical adjustment)
- ◆ Non volatile **backup memory**.
- ◆ Calculates locally **Time of Use (TOU)** consumption at multiple tariffs.
- ◆ Repeats and amplifies signals transmitted by other distant units towards the concentrator over the power network – No distance limitation.
- ◆ 2 line 8 characters LCD display.
- ◆ Internal real time clock updated periodically by the concentrator
- ◆ Measures and reports line voltage.
- ◆ Directly energized by power lines.
- ◆ Small size – triple width DIN – rail mounted.
- ◆ Reads **Water/GAS** meters via unlicensed **RF** communication and sends to the concentrator. (Optional).
- ◆ **16 mm²** wire terminals.
- ◆ Simple and fast installation.
- ◆ **Cost effective.**



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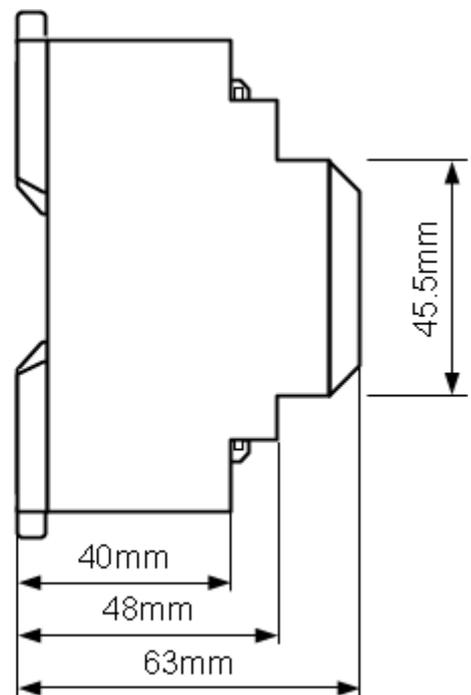
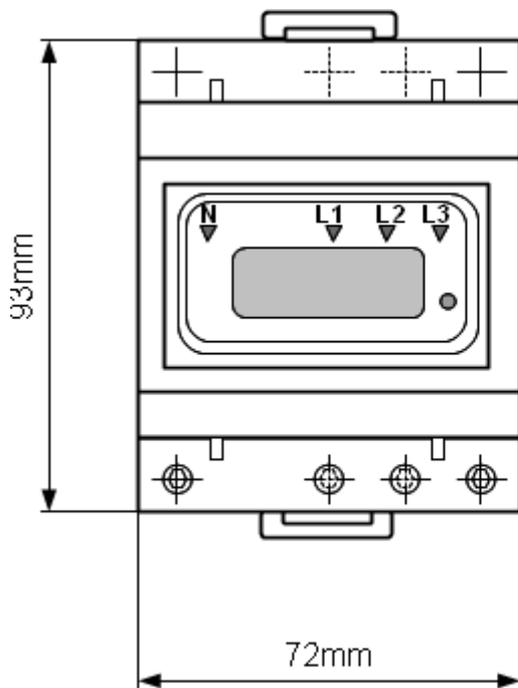
Technical specifications:

General	
Nominal Voltage (Un)	3x230 (400)V
Supply Voltage range	80% - 115% Un
Nominal Frequency (fn)	50Hz
Meter Consumption at Un	1.2W-14Var
System connections	3 phase 4 wire
Measurement	
Class Index according to IEC62053-21	Class 2
Basic Current (Ib)	20A
Maximum continuous current (Imax)	60A
Environmental	
Temperature range:	
operation	-10°C to 55°C
storage	-25°C to 70°C
Insulation Strength	
Protective Class ac. w. IEC62052-11	Class II
Display	
Type	LCD
Format	8 Characters x 2 Lines
Character size	4.3mm x 2.95 mm
LED Indicator	
Flash rate	100 imp/kWh
Communication Interfaces	
PLC Frequency range	"A"-band
PLC Method	Spread FSK
RF (receive only) Frequency (Optional)	Unlicensed 433 MHz
Case Protection/Weight	
Weight	280 g
Enclosure protection ac. w IEC60529	IP51
Protection for connection terminals	IP20



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External Dimensions:



Unique Technology (1993) Ltd
6 Hayozmim st. Or Yehuda, 60373 ,Israel Tel: + 972-3-6340889/99 Fax: +972-3-5330182
Info@collectric.net www.collectric.net

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