RMM-483-05
multifunction network parameter meters

NEW

- **Multifunction meters** - for monitoring network parameters
  - True RMS suitable for EMS, SCADA, ERP applications

- Site programmable for CT/VT ratio
- Site programmable for network selection
- User selectable energy measurement on DO and INT LED
- 33 built-in types of configurable alarms with user-selected priorities
- User configurable multi-tariff
- RS-485 Modbus RTU communication
- Recognitions, certifications, directives: RoHS, CE

Input circuit

Type of measurement networks		3P4W, 3P3W, 1P2W (L-N), 1P2W (L-L)
Measurement method		True RMS see Table 1
Measurement accuracy		Class 0.2S as per IEC 62053-22
Auxiliary input		40...300 V AC/DC
Power consumption		< 6 VA
Frequency range		45...65 Hz
Output/measuring circuit ❶		
Measurement input		20...277 V AC (L-N) 35...480 V AC (L-L) Cat. III 20...347 V AC (L-N) 35...600 V AC (L-L) Cat. II
Voltage transformer VT	• primary	100...999900 V (programmable)
	• secondary	100,110,115,120 V (programmable)
Frequency		45...65 Hz
Measurement method		True RMS
Rated load		0,5 VA
Input current	• rated	5 A AC
	• min., max.	5 mA, 6 A
Voltage transformer CT	• primary	1 A / 5...32767 A (programmable)
	• secondary	1 A / 5 A (programmable)
General data		
Material		polycarbonate
Mounting type		panel mount
Dimensions (L x W x H)		96 x 96 x 46 mm
Panel cutout		92 x 92 mm
Weight		350 g
Cover protection category		front: IP 65 back: IP 20
Accessories		panel mount clamp, terminal cover

❶ Common measure with CT and VT - look at data sheet.

Measurements accuracy Table 1

Measurement type	Compliance with the standard	Deviation
Accuracy	Class as per IEC 61557-12 (In = 5 A, rated CT)	0,5%
Active energy	Class 0.2S as per IEC 62053-22 (In = 5 A, rated CT)	±0,5%
Reactive energy	Class 1 as per IEC 620253-24 (In = 5 A, rated CT)	±1%
Apparent energy	Class 0.5S (In = 5 A, rated CT)	±0,5%
Active power	Class 0.2	±0,5%
Reactive power	Class 1	±1%
Apparent power	Class 0.5	±0,5%
Current	Class 0.2	±0,5%
Voltage (L-N), (L-L)	Class 0.2	±0,5%
Frequency	Class 0.05	±0,05%

PRECAUTIONS:
1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. **2.** Never touch any live parts of the device. **3.** Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. **4.** In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

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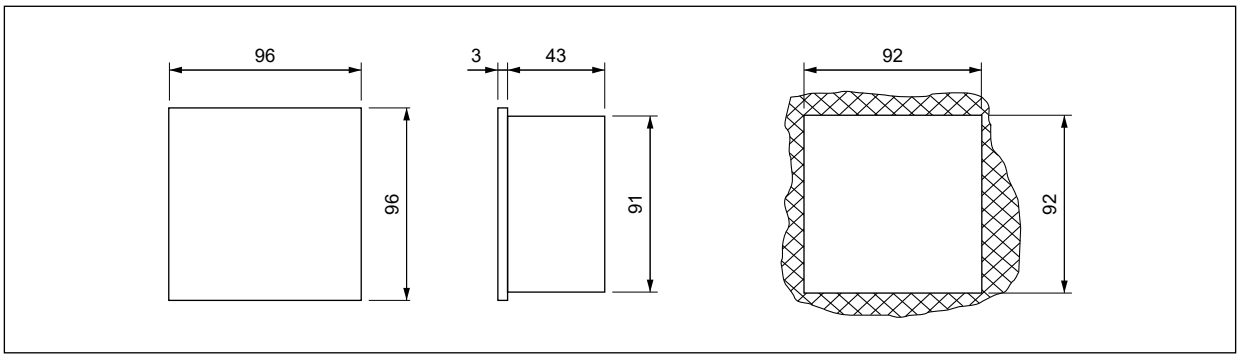
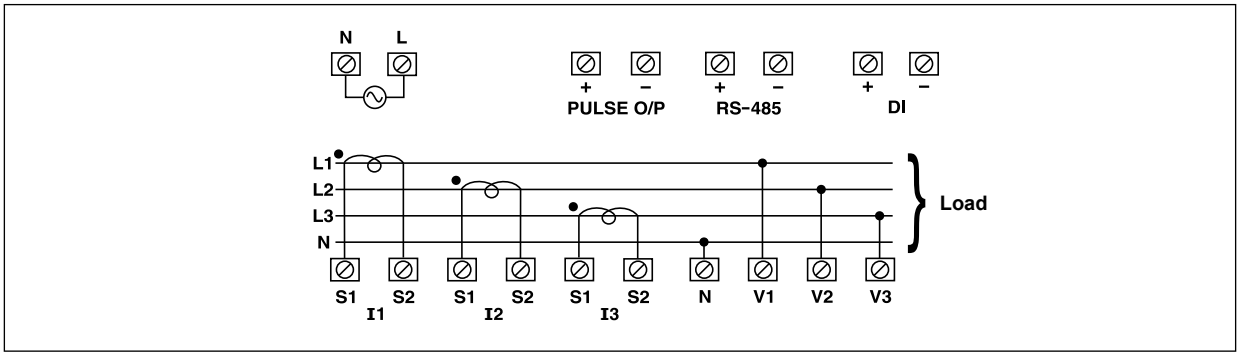
Description

Features of meters **RMM-483-05**:
- power factor sign convention (IEC/IEEE standards),
- four quadrant measurements of power factor & power,
- 3-phase import, export, import + export, import - export (active, reactive, apparent) energies,
- demand parameters with various methods (peak, present, last, predictive),
- time-stamping for the occurrence of peak demand, min./max. parameter values (voltage, current, power factor, power, frequency) and reset of energies and tariff parameters,
- measurements of true, displacement and distortion power factor.

Dimensions, opening on panel mounting



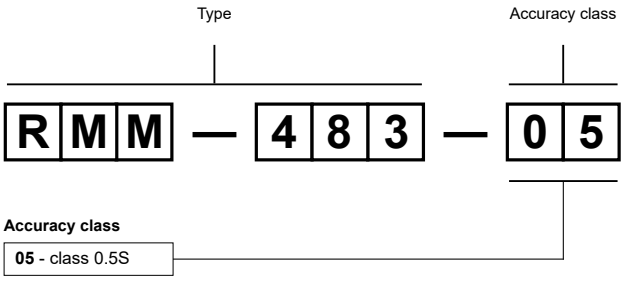
Connection diagram



Mounting

Meters **RMM-483-05** are designed for direct mounting on panel. Operational position - vertical. **Connections:** max. cross section of the cables (at 75 °C): 0,5...2,5 mm² (20...14 AWG), max. tightening moment for the terminal: 0,68...0,79 Nm.

Ordering codes



Example of ordering codes:

RMM-483-05 meter **RMM-483-05**, on panel mounting, multifunction (electric parameters measurement in network AC), accuracy class 0.5S

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