Features

- Digital input/output, analog output and relay measurement options with modular I/O structure
- 96 x 96 x 45 mm compact design
- 3,5” segment LCD screen
- 256 event log
- IP54 protection class

RS PRO Energy Meters

RS Stock No.: 0631061

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

- *The panel type network analyzers are compact solutions, designed for detailed measurement and analysis of electrical parameters, with dimensions of 96 x 96 x 45 mm. Operating within a voltage range of 50-270 VAC/DC, these devices offer up to 16 MB of internal memory and a modular structure for flexible I/O solutions, making them adaptable for various applications.*

- *Real-time monitoring is possible via the large LCD screen, and the communication features of the MPR-4 Series allow for easy monitoring of energy measurements from a centralized location. These attributes make this product ideal for efficient energy management.*

General Specifications

Protection Class	Terminal: IP20, Front: IP51 (IP54 optional)
Operating Voltage	50-270 VAC/DC
Operating Frequency	50/60 Hz
Power Consumption	< 5 VA (< 10 VA with module)
Event Record	YES
Display Type	3,5" LCD
Mounting Type	Flush mount
Connection Terminals	Screw terminal with socket
Operating Temperature (Min to Max)	-10C°...+70C°
Storage Temperature (Min to Max)	-20C°...+80C°
Overvoltage Category	III
Pollution Degree	II
Maximum Ambient Humidity	90%

Measurement Specifications

Voltage	
Measurement Range	5-300 VAC (L-N), 5-480 VAC (L-L)
Measurement Range with Voltage Transformer	5 V - 999,9 kV
Neutral - Ground Voltage (PE-N)	2-300 VAC
Accuracy	2-300 VAC
Input Impedance	0,5% ± 1 Digit
Burden	> 1 M
Current	
Nominal Current	In: 5A / 1A
Minimum Current	5 mA
Measurement Range	50 mA - 5,5 A
Measurement Range with Current Transformer	50 mA - 10.000 A
Accuracy	0,5% ± 1 Digit
Burden	0,5 VA
Overload Current	1,2 x In
Short Time Overload (1 sec)	10 x In
Power / Energy	
Active Power	0 - 1 GW ; 1% ± 1 Digit
Reactive Power	0 - 1 GVAr ; 2% ± 1 Digit
Apparent Power	0 - 1 GVA ; 1% ± 1 Digit
Power Factor	± 1.00 ; Accuracy ± 0,02
Active Energy	0 - 99 999 999 kWh or MWh; Accuracy 1% (Class 1)
Reactive Energy	0 - 99 999 999 kVArh or MVArh; Accuracy 2% (Class 2)
Apparent Energy	0 - 99 999 999 kVAh or MVAh; Accuracy 1%
Voltage and Current Unbalances	NO
Demand Period	1,5,10,15,20,30,60 min
Frequency	45-65 Hz
Sampling Rate per Period	128

Input & Outputs (with module)

Digital Input	
Pulse Width	40 - 500 ms
Digital Output	
Energy Pulse Output	Active energy (1 kWh/pulse - 50 MWh/pulse)
Pulse Width / Duty	0,25A
Switching Current	20 - 1000 ms
Switching Voltage	Max 50 mA
Relay Output	
Relay Output	5 - 24 VDC, max 30 VDC
Analog Output	
Current Output	2 NO, 250 VAC / 5 A
Voltage Output	0 - 20 mA, 4 - 20 mA, 0 - 24 mA
Accuracy	0.5%

Dimensions

Dimensions	96mm x 96mm x 45mm
Width	45mm
Length	96mm
Height	96mm

Standards

EN 61557-12, EN 61326-1, EN 61000-6-2, EN 61000-6-4, EN 62053, EN 60068, EN 61010

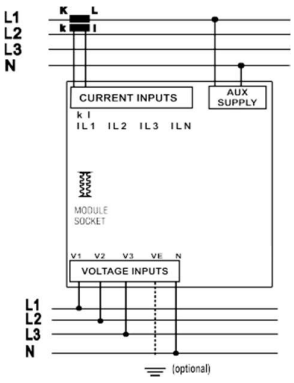
I/O Module Selection

I/O Module Selection Table
MM-102 (2 Digital Output, 5-24 VDC)
MM-120 (2 Digital Input, 5-24 VDC)
MM-122 (2 Digital Inputs + 2 Digital Outputs, 5-24 VDC)

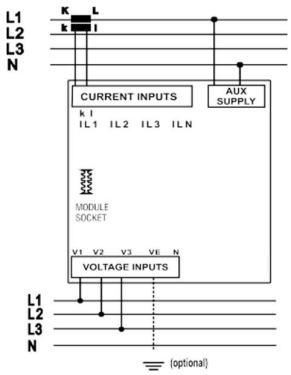
These products can be customized by installing I/O modules based on project requirements.

Connection Diagrams

3P4W BALANCED



3P3W BALANCED



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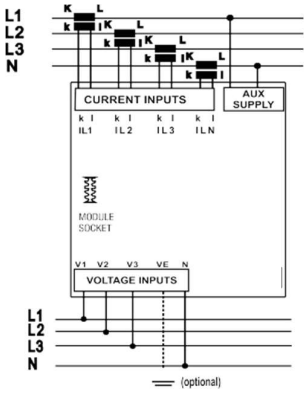
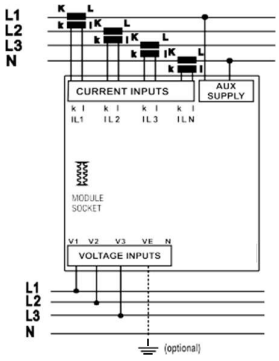


3P3W



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