




MPR-2 Series New Generation Network Analyzers

MPR-2 Series **DIN type** network analyzers are designed for detailed measurement and analysis of electrical parameters. Real-time monitoring is supported via **large graphic screen**.

Thanks to **the communication feature** of devices, energy measurements can be monitored from a single monitoring center.

MPR-2 Series can detect the status of devices in the field with digital inputs and outputs, therefore provides control of breakers, switches, contacts, etc...

- DIN rail mounting
- 2,1 inch graphic screen
- Detailed measurement up to 51 harmonics
- Current/voltage unbalance measurement
- Detection of connection errors
- Compatible with  plug&meter current transformers



SPECIFICATIONS

	MPR-24PM/MPR-24	MPR-25S-22	MPR-26S-21	MPR-27S-23	MPR-28S-32	MPR-26S-21-PM
ENCLOSURE						
Dimensions	DIN4 Rail Mounting					
Protection Class	Terminals = IP20, Enclosure Protection Class = IP40					
Display	2,1 inch LCD screen					
MEASUREMENTS						
Voltage						
Measurement Range	10-400 VAC (L-N) 10 - 690 VAC (L-L)					
Measurement Range with Transformer	1-400.0kV Transformer Ratio: 1-5000					
Accuracy	%0.5 ± 2 Digit					
Input Impedance	> 1M Ω					
Burden (Input Load)	< 0,5 VA					
Current						
Nominal Current	In : 5A / 1A					
Minimum Current	5 mA					
Measurement Range	50 mA - 5,5 A Accuracy : %0.5 ± 1 Digit					
Measurement Range with Transformer	50 mA - 10000 A					
Burden	< 1 VA					
Overload Current	1,2 In continuous					
Short Time Overload (1s)	10xIn					
Power/Energy						
Active Power	0 - 1 GW Accuracy: %1 ± 1 Digit					
Reactive Power	0 - 1 GVar Accuracy: %1 ± 1 Digit					
Apparent Power	0 - 1 GVA Accuracy: %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					
Total Harmonic Distortion (THD)	- THD V%, THD I%					
Separate Harmonics	- 1-51 Voltage (V) and Current (I)					
Demand Period	1,2,5,10,15,20,30,60 min.					
Frequency	45-65 Hz					
Sampling Period	128					
SUPPLY						
Operating Voltage	85 - 300 VAC/DC					
Operating Frequency	50/60 Hz					
Power Consumption	< 6 VA					
DIGITAL INPUT / OUTPUT						
Digital Input Pulse Width	- 20/500 ms					
Digital Input Operating Voltage	- 12...48 VAC/DC					
Switching Current	- Max 50mA					
Digital Output Supply Voltage	- 5-30 VDC (open collector)					
Pulse Duration	- 100ms pulse period 80ms pulse width					
Pulse Width	- 20-500 ms (Adjustable)					
ANALOG OUTPUT						
Current Output	- 0-20mA, 4-20mA, 4-24mA					
Voltage Output	- 0-5V, 0-10V, ±5V, ±10V					
RELAY OUTPUT						
Relay Output	- 1 NO Contact, 250 VAC/5A					
TEMPERATURE INPUT						
Sensor Input Type	- PTC or Thermocouple type					
Thermocouple Type	- B, C, K, R, S, T					
MEMORY						
Internal Memory Size	- 4MB					
COMMUNICATION						
Communication Interface/Protocol	- RS 485 / MODBUS RTU					
Transfer Speed	- 2400-115200					
AMBIENT CONDITIONS						
Operating Temperature	- 10 / +55 °C					
Storage Temperature	- 20 / +70 °C					
Overvoltage Category	III					
Pollution Degree	II					
Ambient Humidity	%95					
STANDARDS						
Standards	EN 61557-12, EN 61326-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 62053, EN 60068, EN 61010					
CONNECTIONS						
Mounting	Rail Mounting					
Connection Terminals	Screw Terminal					
Connection Types	3P4W, 3P3W, 3 Phase Aron, 3P4W Balanced, 3P3W Balanced					

HEADQUARTERS

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Network Analyzers (LED)

MPR-2 Series

MEASURED PARAMETERS

Phase - Neutral Voltages (V_{LN})	Power Factor (P.F)	Active Power (P)	Active Energy Import (kWh or MWh)
Phase - Phase Voltages (V_{LL})	$\cos\kappa$	Reactive Power (Q)	Active Energy Export (kWh or MWh)
Demand / Max. Demand	Frequency (Hz)	Apparent Power (S)	Reactive Energy Capacitive (kVarh or MVarh)
Phase Currents (I_L)	Max. / Min. Values	Total Active Power (ΣP)	Reactive Energy Inductive (kVarh or MVarh)
Neutral Current (I_n)		Total Reactive Power (ΣQ)	Apparent Energy (kVAh or MVAh)
		Total Apparent Power (ΣS)	

MPR-24



Total Harmonic Distortion for Voltage (THD-V)	Total Harmonic Distortion for Current (THD-I)
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MPR-25S-22

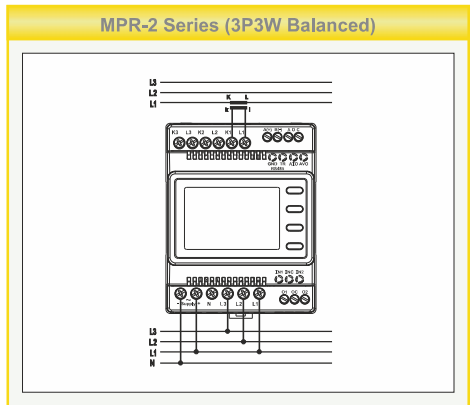
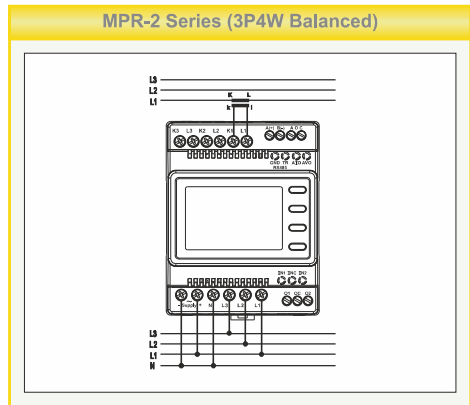
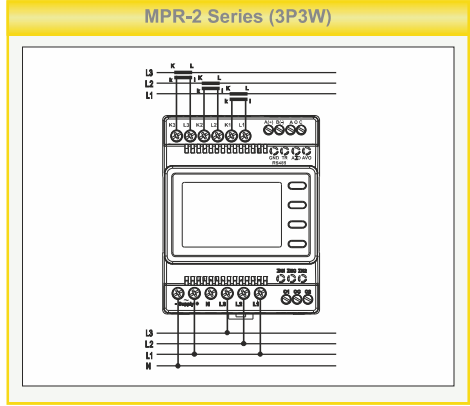
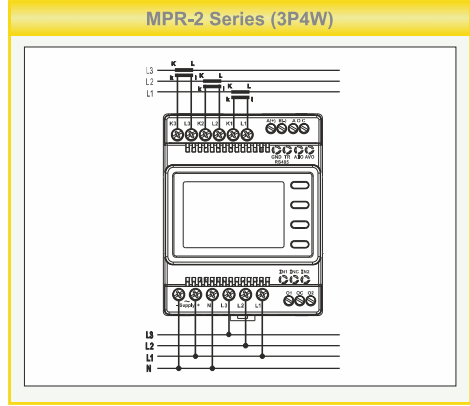


Voltage / Current Unbalances	1-51 st Individual Voltage Harmonics	1-51 st Individual Current Harmonics
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MPR-26S-21 / MPR-27S-23

Connection Diagram DIN-4 - MPR-2 Series

The connection diagrams below are available for MPR-2. Please look for quick start manual for MPR-2-D.



Dimensions

