

NEW

## MPR-2 Series

### New Generation Network Analyzers



MPR-2 Series

MPR-2 Series DIN rail type Network analyzers are designed to measure and analyze various electrical parameters. With their communication features all measurements can be tracked from a single monitoring center.

MPR-2 series can detect the status and allow the control of devices (breakers, switches, contactors etc.) in the field via their digital inputs and outputs.

PRODUCT SELECTION TABLE	3xV, 3rd. Frequency, W, VA, VA SP, SQ, SS, kWh, kVAh, Demand, Max., Min. Coef, I neutral	THD 1%	THD V%	Harmonics 1-51.	RS-485	Digital Input	Digital Output	Analog Output (mA/V)	Temperature Input	Relay Output	Hour (RTC)	Current - Voltage Unbalances	Operating Hours Measuring	Alarm	Memory	Log Records	Event Logs	Tariff
MPR-24	●										●							●
MPR-25S-22	●	●	●			2	2				●							●
MPR-26S-23	●	●	●	51	●	2	2		1		●	●	●	●	4 MB	●	●	●
MPR-27S-23	●	●	●	51	●	2	2	1			●	●	●	●	4 MB	●	●	●
MPR-28S-32	●	●	●	51	●	2	2	1			●	●	●	●	4MB	●	●	●

0,5 Class 0,5

Temperature Input

Memory

Real Time Clock

Harmonic Measurement

- DIN Rail Mounting
- Current/Voltage Unbalance
- Harmonic measurement up to 51<sup>th</sup> harmonic
- Class: 0,5
- Detects wiring errors
- Alarm Management

#### Application Areas



# SPECIFICATIONS

	MPR-24	MPR-25S-22	MPR-26S-23	MPR-27S-23	MPR-28S-32
<b>ENCLOSURE</b>					
Dimensions	DIN4 Rail Mounting				
Protection Class	Terminals = IP20, Enclosure Protection Class = IP40				
Display	LCD				
<b>MEASUREMENTS</b>					
<b>VOLTAGE</b>					
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				
<b>CURRENT</b>					
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				
<b>POWER/ENERGY</b>					
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				
<b>SUPPLY</b>					
Operating Voltage	85 - 300 VAC/DC				
Operating Frequency	50/60 Hz				
Power Consumption	<5 VA				
<b>DIGITAL INPUT / OUTPUT</b>					
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)			
<b>ANALOG OUTPUT</b>					
Current Output	-	0-20mA, 4-20mA, 4-24mA		-	
Voltage Output	-	0-5V, 0-10V, ±5V, ±10V		-	
<b>RELAY OUTPUT</b>					
Relay Output	-	1 NO Contact, 250 AC/6A		-	
<b>TEMPERATURE INPUT</b>					
Sensor Input Type	-				PTC or Thermocouple type
Thermocouple Type	-				B,C,K,R,S,T
<b>MEMORY</b>					
Internal Memory Size	-	4MB			
<b>COMMUNICATION</b>					
Communication Interface/Protocol	-	RS 485 / MODBUS RTU			
Transfer Speed	-	2400-115200			
<b>AMBIENT CONDITIONS</b>					
Operating Temperature	- 10 / +55°C				
Storage Temperature	- 20 / +70°C				
Overvoltage Category	III				
Pollution Degree	II				
Ambient Humidity	%95				
<b>STANDARDS</b>					
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				
<b>CONNECTIONS</b>					
Mounting	Rail Mounting				
Connection Terminals	Screw Terminal				
Connection Types	3P4W, 3P3W, 3 Phase Aron, 3P4W Balanced, 3P3W Balanced				

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