



MPR-42-OGT / MPR-47S-OG New Generation Network Analyzers

MPR-42-OGT / MPR-47S-OG **panel type** network analyzers are compact solutions with their 96 x 96 x 45 mm dimensions and designed for detailed measurement and analysis of electrical parameters in **medium voltage** switchgears. It has wide operating voltage range of 50-270 VAC/DC.

Devices with **internal memory up to 16 MB** offer a wide range of I/O solutions with replaceable modular structure depending on requirements and areas of use. Therefore they provide flexible detection and control of devices in the field.

Real-time monitoring is possible via **large graphic screen**. Thanks to **the communication feature** of MPR-4 Series, energy measurements can be monitored easily from a single monitoring center.

- I/O module which provides 2 digital inputs, 2 digital outputs, 2 analog outputs and 2 relay outputs (Standard for MPR-42-OGT)
- 3,5 inch large LCD screen
- 16 MB memory
- Current/Voltage unbalance measurement
- Detailed measurement up to 51st harmonics (up to 31st harmonics for MPR-42-OGT)
- 256 event log
- Sag/Swell measurement (optional)
- Class 0,5 measurement (optional)
- IP54 (optional)
- Compatible with TEİAŞ specifications (MPR-42-OGT)



SPECIFICATIONS

	MPR-47S-OG	MPR-42-OGT
CASE		
Dimensions	96x96x45 mm	96x96x82mm (via module)
Protection Class	Terminals = IP20, Front Panel = IP51 (IP54 optional)	
Display	3,5 inch LCD screen	
MEASUREMENTS		
Voltage		
Measurement Range	5 – 300 VAC (L-N) 5 – 480 VAC (L-L)	
Measurement Range with Transformer	5V-999,9 kV	
Accuracy	%0,5 ± 1 Digit (% 0,2 ± 1 Digit for MPR-4-OG-0,5)	
Input Impedance	>1MΩ	
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 (% 0,2 ± 1 Digit for MPR-4-OG-0,5)	
Measurement Range with Transformer	50 mA -10000 A	
Burden	0,5 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 (% 0,5 , Class 0,5 for MPR-4-OG-0,5)	
Reactive Energy	0 - 99 999 999 kVAh or MVAh Accuracy: %2 Class 2 (% 1 , Class 1 for MPR-4-OG-0,5)	
Individual Harmonics	2-51 Voltage(V) and Current(I)	2-31 Voltage (V) and Current (I)
Demand Period	1,2,5,10,15,20,30,60 min, adjustable	
Frequency	45-65 Hz	
Sampling Period	128	
SUPPLY		
Operating Voltage	50 - 270 VAC/DC (24 - 60 VAC/DC for MPR-4-OG-D)	
Operating Frequency	50/60 Hz	
Power Consumption	<5 VA [<10 VA module]	<10 VA
PULSE OUTPUT		
Energy Pulse Output	Active Energy Output (1Pulse/Wh-1Pulse/MWh) Reactive Energy Output (1Pulse/VArh-1Pulse/MVAh)	
Switching Current	Maximum 50 mA	
Switching Voltage	5...30 VDC	
Pulse Width / Space btw. Pulses	20...1000 ms	
Maximum Voltage	Maximum 30 VDC	
MEMORY		
Internal Memory Size	16MB	
COMMUNICATION		
Communication Interface/Protocol	RS-485 / MODBUS RTU	
Transfer Speed	2400-115200 bps	
AMBIENT CONDITIONS		
Operating Temperature	- 5°C / +55 °C	
Storage Temperature	- 25°C / +70 °C	
Overvoltage Category	III	
Pollution Degree	II	
Ambient Humidity	max. %90	
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	Front Panel Mounting	
Connection Terminals	Screw Terminal with Socket	
Connection Types	3F4T, 3F3T, 3 Phase (Aron), 3F4T Balanced, 3F3T Balanced	
Module	Optional for MPR-47S	Module features: - 2 Digital inputs 5-30VDC - 2 Digital outputs 5-30VDC - 2 Analog outputs 0-20mA/4-20mA/4-24mA 0-5V/0-10V/±5V/±10V - 2 Relay outputs 6A 250VAC/DC

HEADQUARTERS

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