



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

MPR-42-OGT / MPR-47S-OG series **panel type** network analyzers are compact solutions 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 LCD 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" LCD screen
- 16 MB memory
- Current & voltage unbalanced measurement
- Detailed measurement up to 51st harmonics (up to 31st harmonics for MPR-42-OGT)
- 256 event log
- Sag/Swell measurement
- Active energy class 0,5 measurement (optional)
- IP54 (optional)



SPECIFICATIONS

	MPR-42-OGT	MPR-475-OG
ENCLOSURE		
Dimensions	96x96x67 mm (via modül)	96x96x45 mm
Protection Class	Terminal: IP20, Front: IP51 (IP54 optional)	
Display	3,5" LCD display	
MEASUREMENT		
Voltage		
Measurement Range	5-300 VAC (L-N), 5-480 VAC (L-L)	
Measurement Range with VT	5 V - 999,9 kV	
Neutral - Ground Voltage (PE-N)	2-300 VAC	
Accuracy	0,5% ± 1 Digit (for MPR-4x-0,5 0,2% ± 1 Digit)	
Input Impedance	> 1 M	
Burden	< 0,5 VA	
Current		
Nominal Current	In: 5A / 1A	
Minimum Current	5 mA	
Measurement Range	50 mA - 5,5 A	
Measurement Range with CT	50 mA - 10.000 A	
Accuracy	0,5% ± 1 Digit (for MPR-4x-0,5 0,2% ± 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 (for MPR-4x-0,5 0,5% ± 1 Digit)	
Reactive Power	0 - 1 GVar ; 2% ± 1 Digit (for MPR-4x-0,5 1% ± 1 Digit)	
Apparent Power	0 - 1 GVA ; 1% ± 1 Digit	
Power Factor	± 1.00 ; Accuracy ± 0,02 (for MPR-4x-0,5 ± 0,01)	
Active Energy	0 - 99 999 999 kWh or MWh; Accuracy 1% (Class 1) (for MPR-4x-0,5 Class 0,5)	
Reactive Energy	0 - 99 999 999 kVarh or MVarh; Accuracy 1% (Class 2) (for MPR-4x-0,5 Class 1)	
Apparent Energy	0 - 99 999 999 kVAh or MVAh; Accuracy 1%	
Total Harmonic Distortion	L - L Voltage (THD-U%); L - N Voltage (THD-V%); Current (THD-I%)	
Individual Harmonics	2-31 Voltage (V) and Current (I)	2-51 Voltage (V) and Current (I)
Voltage and Current Unbalances	-	.
Sag&Swell	-	records as event
Demand Period	1,5,10,15,20,30,60 min	
Frequency	45-65 Hz	
Sampling Rate per Period	128	
SUPPLY		
Operating Voltage	50-270 VAC/DC (for MPR-4x-OG-D series 24-60 VAC/DC)	
Operating Frequency	50/60 Hz	
Power Consumption	< 10 VA	< 5 VA (< 10 VA with module)
MEMORY / RECORD		
Internal Memory Size	16 MB	
LOG Record	.	
Event Record	.	
COMMUNICATION		
Interface / Protocol	RS 485 / Modbus RTU	
Transfer Rate (bps)	2400-115200	
PULSE OUTPUT		
Energy Pulse Output	Active energy (1 kWh/pulse - 50 MWh/pulse) Reactive energy (1 kVarh/pulse - 50 MVarh/pulse)	
Switching Current	Max 50 mA	
Switching Voltage	5 - 24 VDC, max 30 VDC	
Pulse Width	20-1000 ms	
CONNECTIONS		
Mounting Type	Flush mount	
Connection Terminals	Screw terminal with socket	
Connection Types	3P4W, 3P3W, 3 Phase Aron, 3P4W (balanced), 3P3W(balanced)	
Module	Module features - 2 Digital inputs 5-30 VDC - 2 Digital outputs 5-30 VDC - 2 Analog outputs 0-20mA/ 4-20mA/ 0-24mA 0-5V/ 0-10V± 5 V± 10 V - 2 Relay outputs 6A/250 VAC	Optional for MPR-475-OG
AMBIENT CONDITIONS		
Ambient Temperature	-10 / + 70°C	
Storage Temperature	-20 / + 80°C	
Overvoltage Category	III	
Pollution Degree	II	
Maximum Ambient Humidity	90%	
STANDARDS		
Standards	EN 61557-12, EN 61326-1, EN 61000-6-2, EN 61000-6-4, EN 62053, EN 60068, EN 61010	

HEADQUARTERS

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