

Network Analyzers

MPR-53 / EPM-07



Power and Energy Measuring for all Series

MPR-53 / EPM-07 series network analyzers allow monitoring more than 50 electrical parameters on their display

- EPM-07** : Network Analyzer
- EPM-07S** : Network Analyzer with RS-485 (MODBUS)
- MPR-53** : Network Analyzer with THD measurement
- MPR-53S** : Network Analyzer with THD measurement and RS-485 (MODBUS)
- MPR-53CS** : Network Analyzer with THD measurement , RS-485, Pulse Counter, Digital Hour Meter, Alarm Contact



PRODUCT SELECTION TABLE

Product Code	3xV, 3xI, Freqs, W, VAR, VA, DP, DQ, DS, kWh, kVAh, Demand, Max., Min, Cosφ, I n&tr	THD-I	THD-V	Neutral Current	Digital Input	Energy Pulse Output	Dual Energy Meter	6 Different Energy Calculation Methods	CT-25 (120A)	Alarm Contact	Digital Hour Meter	Pulse Counter	RS-485 Comm.	Pcs/Box
EPM-07-96	●				●	●	●	●	○					12
EPM-07-DIN	●				●	●	●	●	○					12
EPM-07S-96	●				●	●	●	●	○				●	12
EPM-07S-DIN	●				●	●	●	●	○				●	12
MPR-53-96	●	●	●	●	●	●	●	●	○					12
MPR-53-DIN	●	●	●	●	●	●	●	●	○					12
MPR-53S-DIN	●	●	●	●	●	●	●	●	○				●	12
MPR-53S-OG-DIN	●	●	●	●	●	●	●	●					●	12
MPR-53CS-DIN	●	●	●	●	●	●	●	●	○	●	●	●	●	12
MPR-53CS-OG-DIN	●	●	●	●	●	●	●	●		●	●	●	●	12
MPR-53S-96	●	●	●	●	●	●	●	●	○				●	12
MPR-53CS-96	●	●	●	●	●	●	●	●	○	●	●	●	●	12

○ Optional



MPR-53S-DIN-CT25

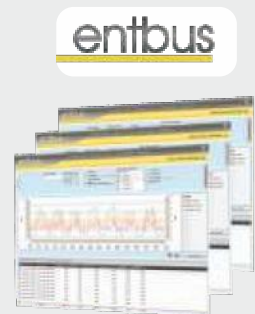
CT-25

CT-25 is a unique solution to reduce measurement costs in low current systems (up to 120A).

* For CT-25, see page 80

Remote Monitoring Software:

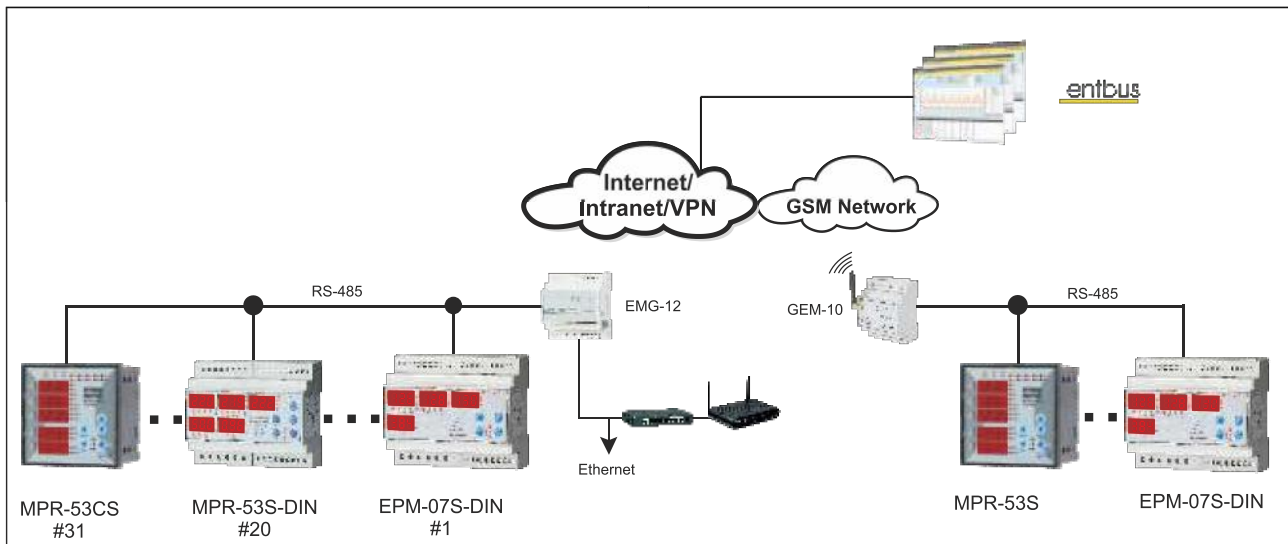
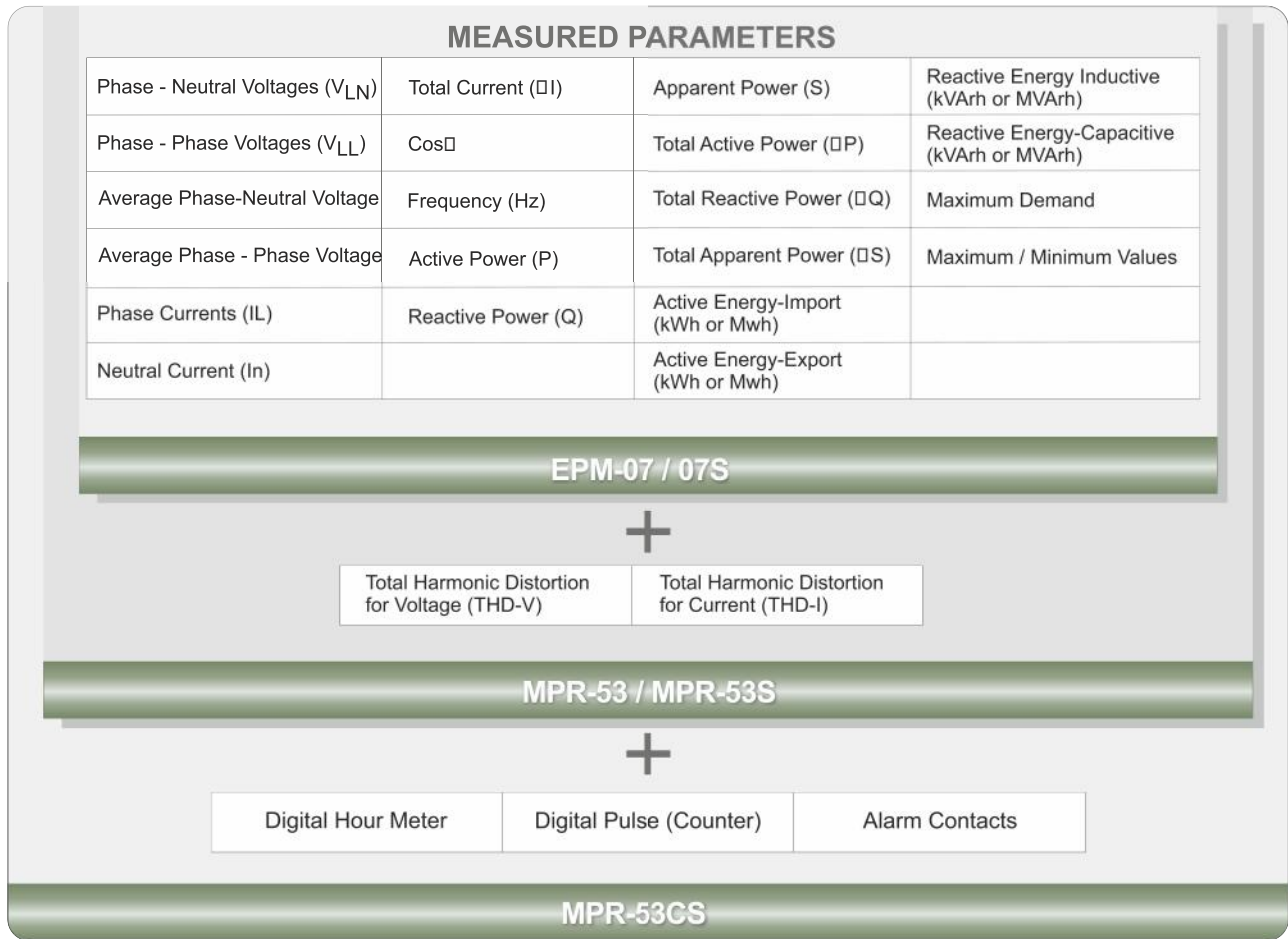
With the energy management software developed by ENTES, energy consumption and quality can be monitored in real time by reading the values measured by devices. As a result, comprehensive energy monitoring, data storage, optimum energy consumption control with the analysis of stored data, improvements in energy costs, and sustainable goals for energy systems are accomplished.



* For more detailed information, see Page 84.

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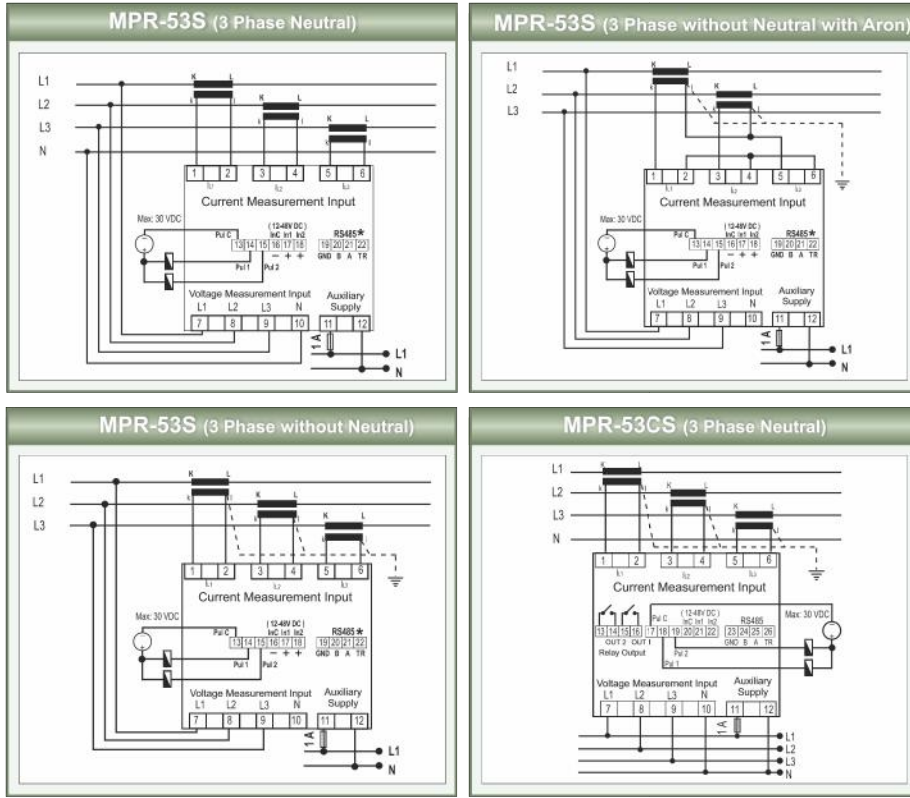
SPECIFICATIONS

	EPM-07	EPM-07S	MPR-53S/53S-OG	MPR-53CS/53CS-OG	MPR-53
ENCLOSURE					
Dimensions	96x96mm Pr19, DIN6 PK26				
Protection Class	IP40 Front Panel, IP54 Optional				
Weight	0,6kg/pcs				
Display	Red LED; height 10mm				
MEASUREMENTS					
Voltage					
Measurement Range	10-300 VAC (L-N), 10-500 VAC (L-L)				
Measurement Range with Transformer	10-200kV, Voltage transformer ratio:0.1-4000.0				
Accuracy	1%±1 digit [(10%-110%)xFull scale]				
Input Impedance	1.8 MΩ				
Burden (Input Load)	<0.5 VA				
Current					
Nominal Current	In:5,5A				
Minimum Current	50mA				
Measurement Range	50mA-5,5A Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Measurement Range with Transformer	50mA-10.000A Transformer ratio:1-2000				
Burden	<1 VA				
Over Load Current	1,2 In				
Power/Energy					
Active Power	Range: 0-215 MW Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Reactive Power	Range: 0-215 MVar, Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Apparent Power	Range: 0-215 MVA, Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Power Factor	4 quadrant				
Active Energy	Range: 0-99 999 999 999,9 kWh				
Reactive Energy	Range: 0-99 999 999 999,9 kVarh				
Demand Period	1-60 minute				
Frequency	45-65 Hz				
Number of Samples In One Period	64				
SUPPLY					
Operating Voltage	110 VAC/230 VAC ±% 10 or 45-265 VAC/DC or 10-56 VDC (MPR-53S-OG/MPR-53CS-OG)				
Operating Frequency	45-65 Hz				
Power Consumption	<4VA				
INPUT/OUTPUT STRUCTURE					
Digital Input	2				
Digital Input Pulse Width	20ms.				
Digital Input Operating Voltage	12...48 VAC/DC				
Digital Hour Meters	3 hourmeters HH HH HH HH.HH, total hours (non-resettable), run hours (resettable), setpoint hours (resettable). (for MPR-53CS)				
Delay Time	Delay on and delay off 0-999,9 sec (for MPR-53CS)				
Contact Output	2NO contact 5A;1250VA (for MPR 53 CS)				
Energy Pulse Output	NPN transistor				
Switching Current	Maximum 50 mA				
Switching Voltage	5..24VDC Maximum 30V DC				
Pulse	100ms pulse period, 80ms pulse width				
COMMUNICATION					
Communication Interface/Protocol	-		MODBUS RTU(RS-485)		-
Parity	-		no, odd, even		-
Address	-		1-247		-
Transfer Speed	-		2400-38400 bps		-
AMBIENT CONDITIONS					
Ambient Temperature	-5 / +50°C				
Over Voltage Category	III				
Pollution Degree	II				
STANDARDS					
Applied Security Standards	EN 61010-1				
Applied EMC Standards	EN 61000-6-2, EN 61000-6-4				
Applied Mechanical Endurance Standards	EN 60529				
CONNECTIONS					
Mounting	Front Panel Mounting (PR 19) / Rail Mounting (PK 26)				
Connection Terminals	Screw Terminal with Socket				
Connection Types	3 Phase Neutral, 3 Phase, 3 Phase (Aron)				

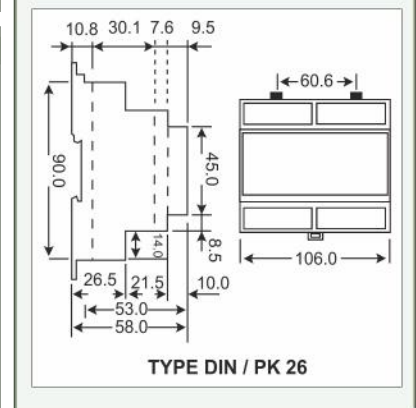
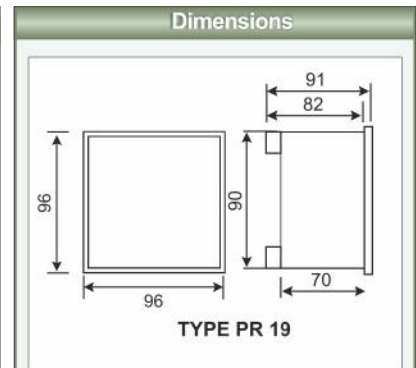
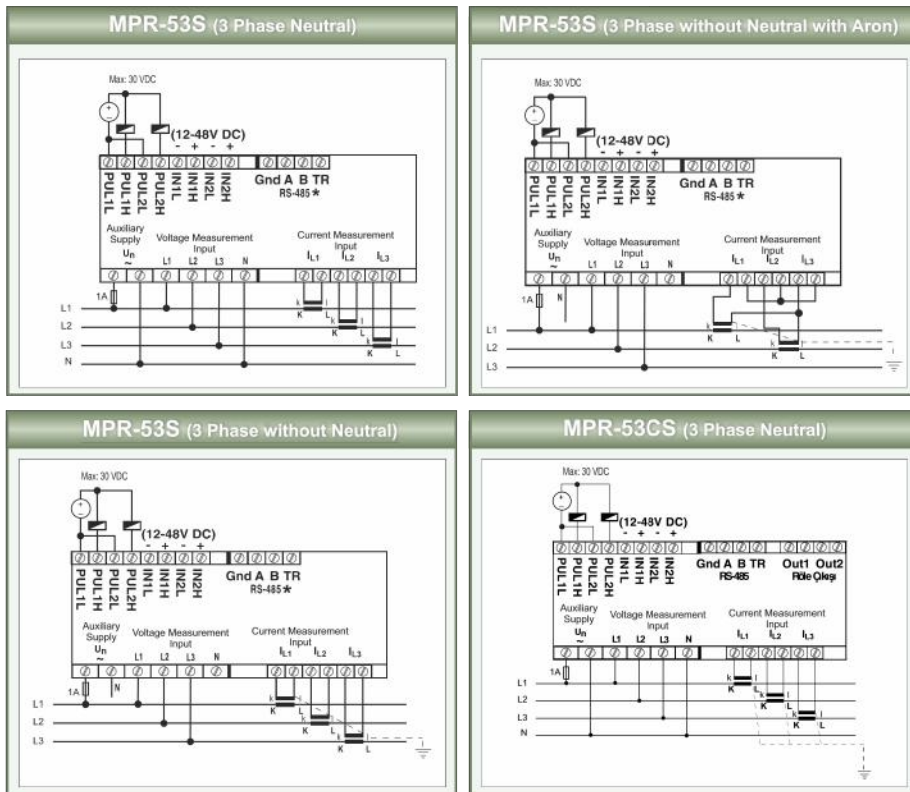
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Connection Diagram (PR19- 96x96mm)



(PK 26 - DIN6)



* RS-485 terminals are standard for EPM-07S and MPR-53S

Connection diagrams are given as references. For the latest connection diagrams, please refer to the user manual or www.entec.com.tr.