



Network Analyzers

MPR-53 / EPM-07



General

Power and Energy Measuring for all Series

MPR-53 / EPM-07 series measure many parameters of an electric network. More than 50 parameters are displayed.

- 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 Counter, Alarm Contact

IEC 61000-6-2, IEC 61000-6-4, IEC 61010-1



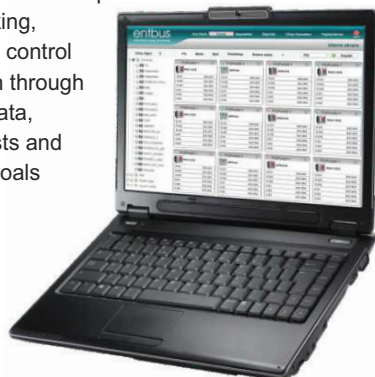
Product Code	% THD I	% THD V	Neutral Current	Digital Input	Energy Pulse Output	Dual Energy Meter	6 Different Energy Calculation Methods	.../5A	CT-25 (120A)	Alarm Contact	Digital Hour Counter	Pulse Counter	RS-485 Comm.	Pcs/ Carton
EPM-07-96			●	●	●	●	●	●						12
EPM-07-DIN			●	●	●	●	●	●						12
EPM-07S-96			●	●	●	●	●	●					●	12
EPM-07S-DIN			●	●	●	●	●	●					●	12
MPR-53-96	●	●	●	●	●	●	●	●						12
MPR-53-DIN	●	●	●	●	●	●	●	●						12
MPR-53S-DIN	●	●	●	●	●	●	●	●					●	12
MPR-53CS-DIN	●	●	●	●	●	●	●	●		●	●	●	●	12
MPR-53S-96	●	●	●	●	●	●	●	●					●	12
MPR-53CS-96	●	●	●	●	●	●	●	●		●	●	●	●	12
MPR-53S-DIN-CT25	●	●	●	●	●	●	●	●	○				●	12
EPM-07S-DIN-CT25			●	●	●	●	●	●	○				●	12

○ Min. Order Quantity is 200 devices.

Remote Monitoring Software:

Remote monitoring software solutions developed by ENTES enable the user to monitor energy usage and quality in real-time by reading values that are measured by devices via Modbus.

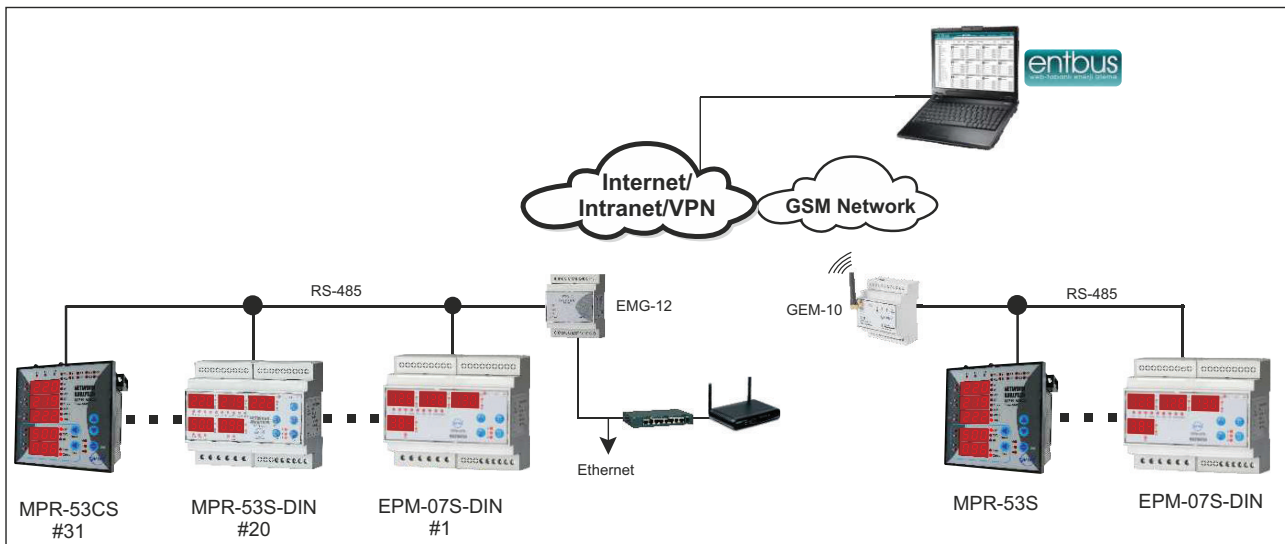
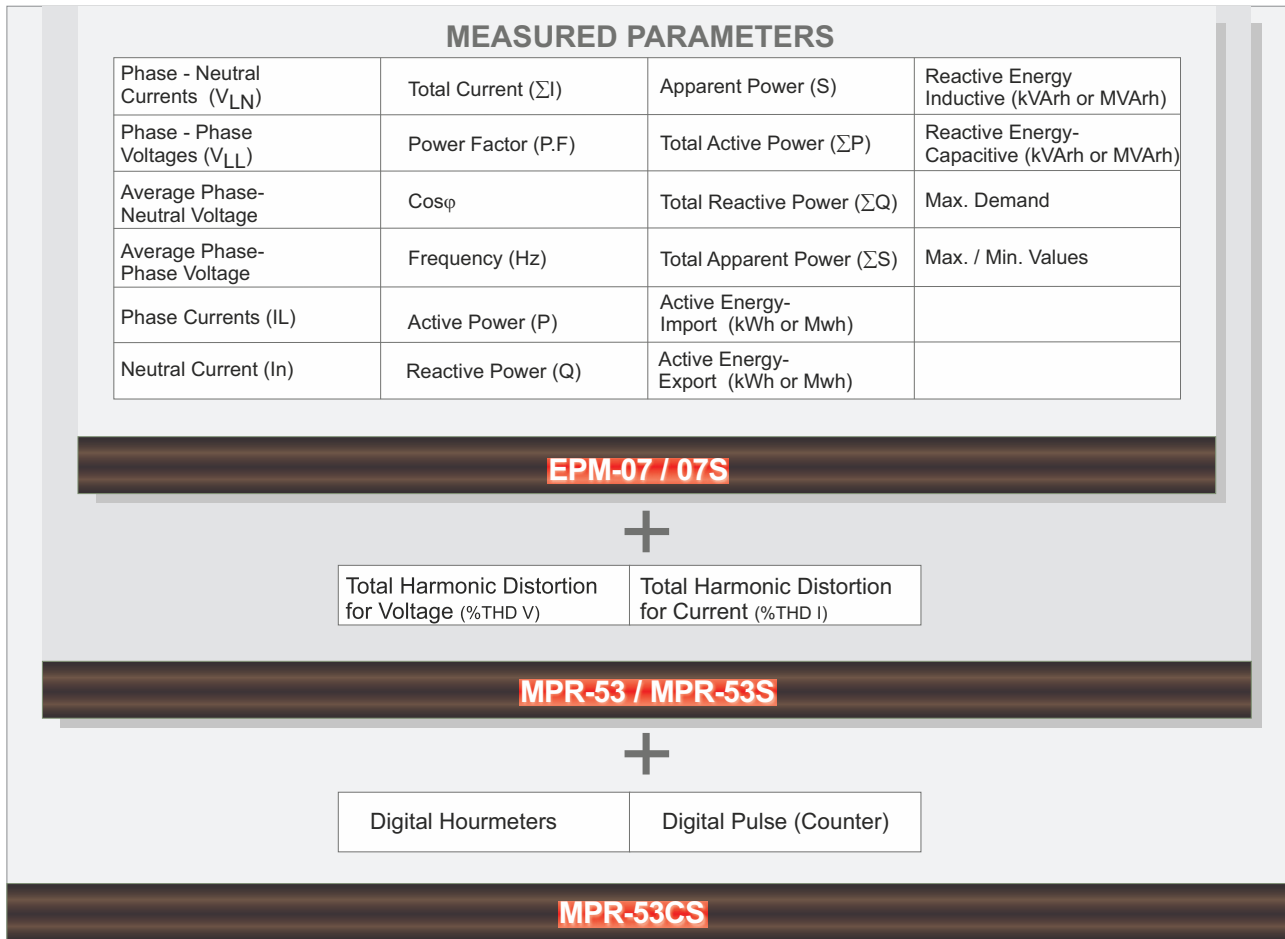
Thereby; this software solutions provide extensive energy tracking, data storage, optimum control of energy consumption through analysing the stored data, decreasing energy costs and attaining sustainable goals for energy systems.



CT-25 is a Current Transformer, which is used together with MPR-53S-DIN-CT25 model. It is a unique solution, which replaces conventional type CTs up to 120A. For CT-25, please refer to page 60.

Network Analyzers

MPR-53 / EPM-07



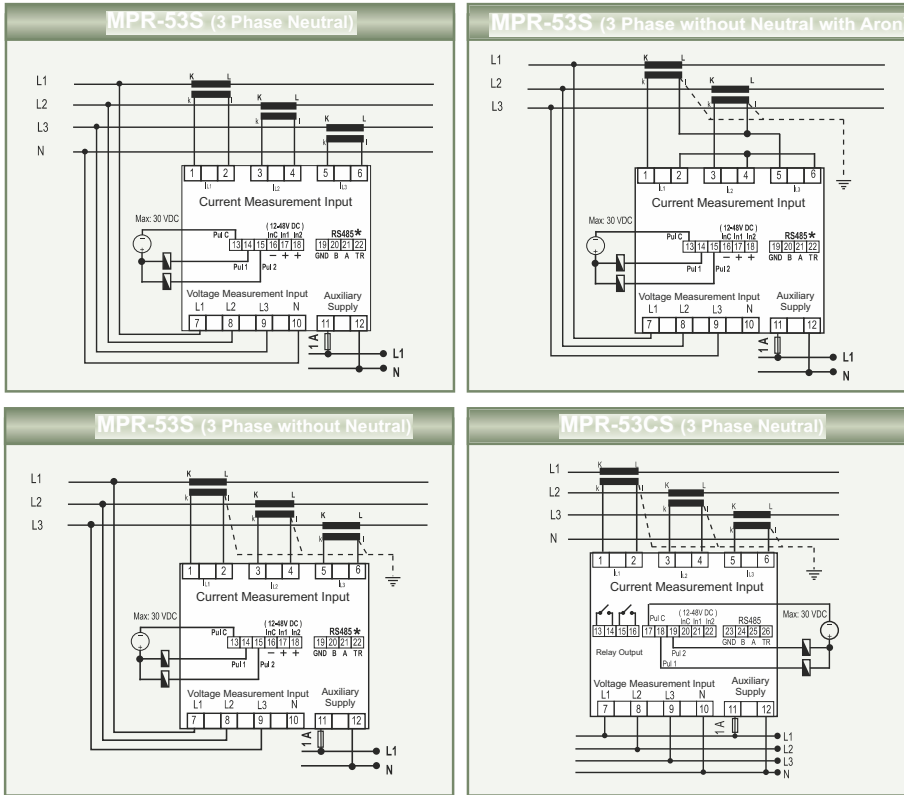


SPECIFICATIONS

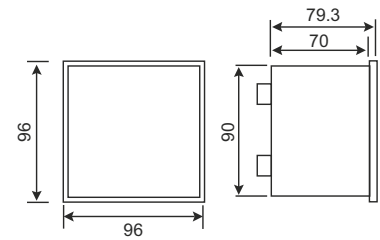
	EPM-07	EPM-07S	MPR-53S	MPR-53CS	MPR-53
ENCLOSURE					
Dimensions	96x96mm PR19, DIN6 PK26				
Degree of Protection	IP40 Front Panel, IP54 Optional				
Weight	0,6kg/pcs; carton:12 pcs				
Display	Red LED; height 10mm				
MEASUREMENTS					
Voltage					
Measurement Range	10-300V AC (L-N), 10-500VAC (L-L)				
Measurement Range VT	10-300V(L-N) direct, 10-200kV, Voltage transformer ratio: 0.1-4000.0 programmable				
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 VT	50mA-10.000A Tranformer ratio: 1-2000 programmable				
Burden	<1 VA				
Over Load Current	1,2 In				
Power/Energy					
Active Power	0-215 MW Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Reactive Power	0-215 MVar Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Apparent Power	0-215 MVA Accuracy: 1%±1 digit [(10%-110%)xFull scale]				
Power Factor	4 quadrant				
Active Energy	0-99 999 999 999,9 kWh				
Reactive Energy	0-99 999 999 999,9 kVarh				
Demand/Demand Time	1-60 minute				
Frequency	45-65 Hz				
SUPPLY					
Operating Voltage	110VAC/230VAC ±10 or 45-265V AC/DC				
Operating Frequency	45-65 Hz				
Power Consumption	<4VA				
INPUT/OUTPUT/SETTINGS					
Digital Input	2 pcs				
Digital Input Pulse Width	20msec.				
Digital Input Operating Voltage	12...48VAC/DC				
Digital Timer	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	Max. 50 mA				
Switching Voltage	5...24VDC Max. 30V DC				
Pulse Duration	100msec pulse period, 80msec 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 / +55°C				
Over Voltage Category	III				
Pollution Degree	II				
STANDARDS					
Security Standards	EN 61010-1				
EMC Standards	EN 61000-6-2, EN 61000-6-4				
Mechanical Endurance	EN 60529				
CONNECTIONS					
Mounting	Flush mounting with rear terminal (PR 19) / Rail mounting (PK 26)				
Connection Terminals	screwed terminal with socket				
Connection Types	3 phase neutral, 3 phase, 3 phase (Aron)				



Connection Diagram (PR19- 96x96mm)

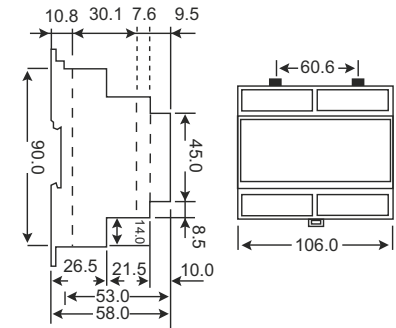
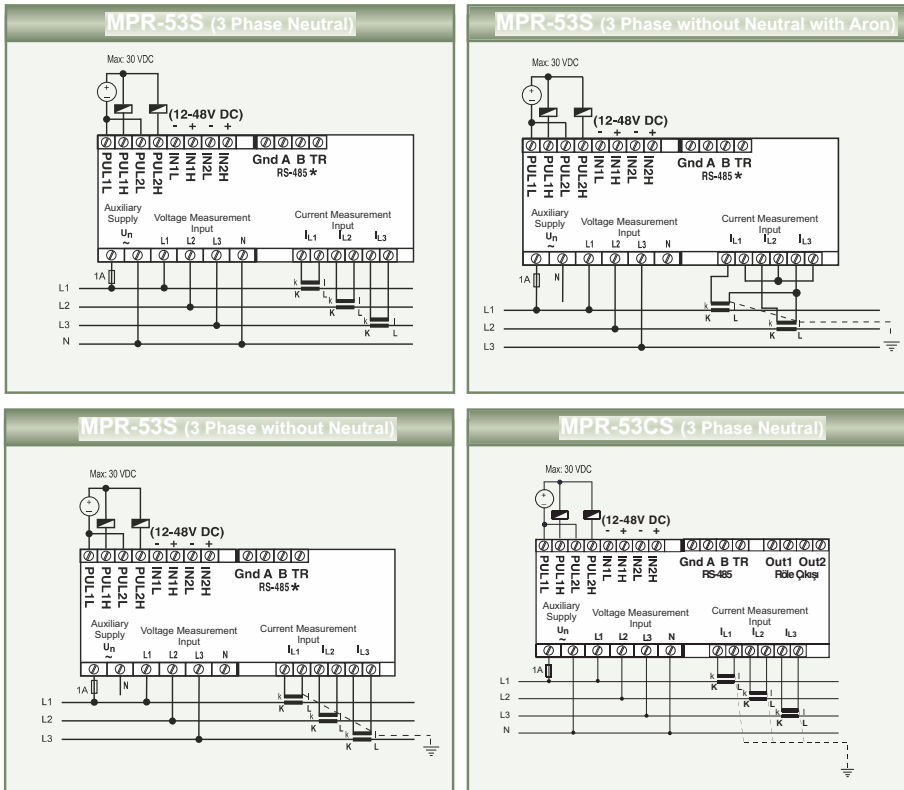


Dimensions



TYPE PR 19

(PK 26 - DIN6)



TYPE DIN / PK 26

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

Connection diagrams are given for reference. Please always check the latest user manual given with product or download from www.entec.com.tr.