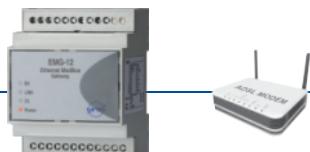




MPR-53CS-96

CE  
KEMA  
IEC

Modbus / Ethernet  
Gateway



MPR-SW  
Software

## General

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

- EPM-07: Network Analyser.
- EPM-07S: Network Analyser with RS-485 (MODBUS).
- MPR-53: Network Analyser with THD measurement.
- MPR-53S: Network Analyser with THD measurement and RS-485 (MODBUS).
- MPR-53CS: Network Analyser with THD measurement, RS-485, Pulse Counter, Digital Hour Counter, Alarm Contact
- IEC 61000-6-2, IEC 61000-6-4, IEC 61010-1



Modbus



Harmonics



Max.  
Demand



Pulse  
Output



Digital  
Input



Alarm  
Contact



Digital Hour  
Counter



Pulse  
Counter



## Product Code

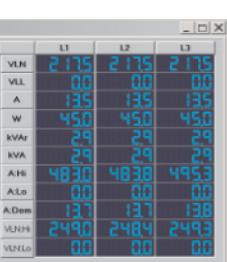
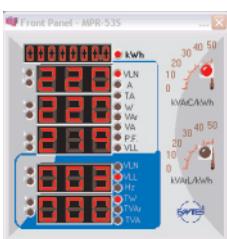
EPM-07-96													
EPM-07-DIN													
EPM-07S-96													
EPM-07S-DIN													
MPR-53-96	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53-DIN	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53S-96	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53CS-96	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53S-DIN	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53CS-DIN	●	●	●	●	●	●	●	●	●	●	●	●	●
MPR-53S-DIN-CT25	●	●	●	●	●	●	●	●	●	●	●	●	●
EPM-07S-DIN-CT25			●	●	●	●	●	●	●	●	●	●	●

◆ Min. Order Quantity is 200pcs / device

## PC Interface Software (MPR-SW)

MPR-SW is a graphic based software, which enables remote monitoring via intranet or internet.

Please refer to page 46 for MPR-SW Software.



MPR-53S-DIN-CT25

CT-25

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.

Phase - Neutral Voltages ( $V_{LN}$ )	Total Current ( $\Sigma I$ )	Apparent Power (S)	Reactive Energy - Capacitive (kVArh)
Phase - Phase Voltages ( $V_{LL}$ )	Power Factor (P.F)	Total Active Power ( $\Sigma P$ )	Reactive Energy - Inductive (kVArh)
Average Phase - Neutral Voltage	$\text{Cos}\phi$	Total Reactive Power ( $\Sigma Q$ )	Max. Demand
Average Phase - Phase Voltage	Frequency (Hz)	Total Apparent Power ( $\Sigma S$ )	Max / Min. Values
Phase Currents (I)	Active Power (P)	Active Energy - Import (kWh)	
Neutral Current	Reactive Power (Q)	Active Energy - Export (kWh)	

### Measured Parameters ( EPM-07 / 07S )

+

Total Harmonic Distortion for Voltage (THD V %)	Total Harmonic Distortion for Current (THD I %)
---	---

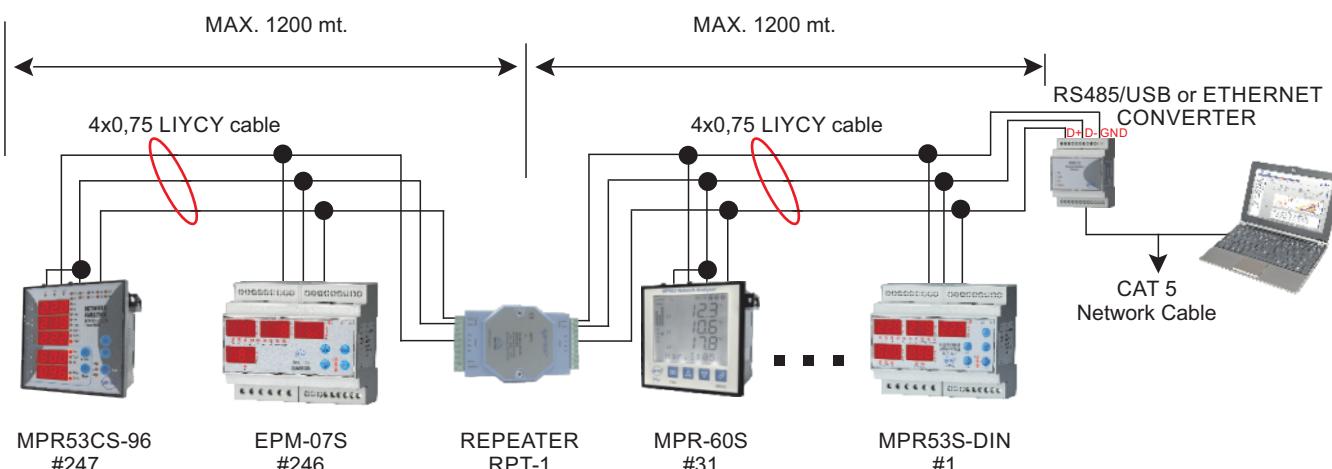
### Measured Parameters ( MPR-53 / MPR-53S )

+

Digital Hourmeters	Digital Pulse (Count)
--------------------	-----------------------

### Measured Parameters ( MPR-53CS )

247 DEVICES CAN BE CONNECTED SERIALLY BY USING REPEATERS.

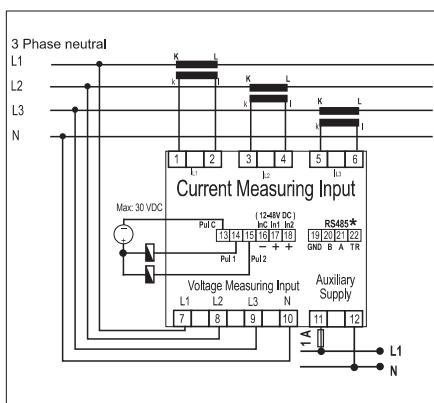


\* Recommended 4x0,75 LIYCYmm<sup>2</sup> cable for RS-485 communications

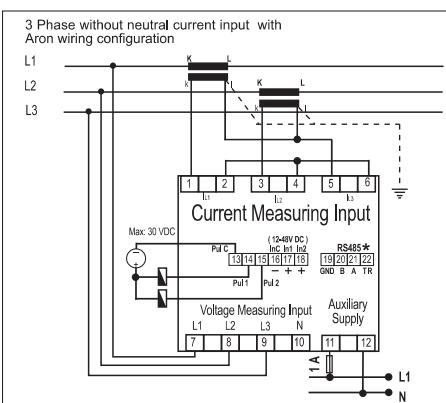
MODEL	EPM-07	EPM-07S	MPR-53	MPR-53S	MPR-53CS
<b>SPECIFICATIONS</b>					
<b>HOUSING</b>					
Dimensions	96x96mm	PR19, DIN6	PK26		
Protection Class	IP40 Front Panel; IP54 Optional				
Weight	0,75 kg/device; One package contains 8 pcs.				
Display	Backlit 3,6" LCD				
<b>MEASUREMENTS</b>					
Voltage					
Measuring Range	10-300V AC (L-N), 10-500VAC (L-L)				
Measuring Range with Transformer	10-300V(L-N) direkt, 10-200kV Transformer Ratio: 1.0-4000				
Accuracy	%1±1 digit [(%10-%110)xTam skala]				
Input Impedance	1.8 MΩ				
Burden	<0.5 VA				
Overload Voltage	1.2 x Measurement Range				
Current					
Nominal Current	In:5,5A				
Lowest Current	50mA				
Measurement Range	50mA-5,5A Accuracy: %1±1 digit [(%10-%110)xTam skala]				
Measurement Range with Transformer	50mA-10.000A Transformer Ratio: 1-2000 programlanabilir				
Burden	<1 VA				
Overload Current	1,2 In				
<b>Power/Energy</b>					
Active Power	0-215 MW Doğruluk: %1±1 digit [(%10-%110)xTam skala]				
Reactive Power	0-215 MVAr Doğruluk: %1±1 digit [(%10-%110)xTam skala]				
Apparent Power	0-215 MVA Doğruluk: %1±1 digit [(%10-%110)xTam skala]				
Power Factor	4 kuadrant				
Active Energy	0-99 999 999 999,9 kWh				
Reactive Energy	0-99 999 999 999,9 kVArh				
Demand/Demand Time	1-60 dakika				
Frequency	45-65 Hz				
<b>SUPPLY</b>					
Operating Voltage	110VAC/230VAC ±% 10 veya 45-265V AC/DC				
Operating Frequency	45-65 Hz				
Power Consumption	<4VA				
<b>INPUT/OUTPUT/SETTINGS</b>					
Digital Input	2 Inputs				
Digital Input Pulse Width	20msec.				
Digital Input Operating Voltage	12...48VAC/DC				
Digital Hourmeter	3 hourmeters for MPR-53CS, non-resettable total Hour meter, resettable run hour meter, resettable alarm hour meter.				
Delay Time	0-999,9 sec. for ON- and OFF-delay time(for MPR-53CS)				
Contact Output	2 NO Contacts 5A; 1250 VA(for MPR-53CS)				
Energy Pulse Output	NPN transistor				
Switching Current	Max. 50 mA				
Switching Voltage	5..24VDC Max. 30V DC				
Pulse Duration	100 msec. Pulse period, 80 msec. Pulse width				
<b>COMMUNICATION</b>					
Interface/Protocol	MODBUS RTU(RS-485)				
Parity	None, Odd, Even				
Address	1_247				
Transfer Rate	2400-38400 bps				
<b>AMBIENT CONDITIONS</b>					
Ambient Temperature	-5,+55°C				
Overshoot Category	III				
Pollution Degree	II				
<b>STANDARDS</b>					
Security Standards	EN 61010-1				
EMC Standards	EN 61000-6-2, EN 61000-6-4				
Mechanical Endurance	EN 60529				
<b>CONNECTIONS</b>					
Installation	Flush-mounting with rear terminals(PR 19), Rail mount(PK 26)				
Connection Terminals	Socket Type Terminal with Screws				
Connection Types	3 Phase+Neutral(3P4W), 3 Phase(3P3W), 3 Phase(Aron)				

## Connection Diagram (PR 19- 96x96mm)

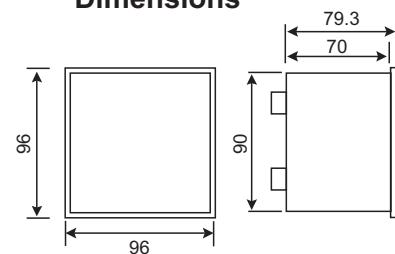
MPR-53S



MPR-53S

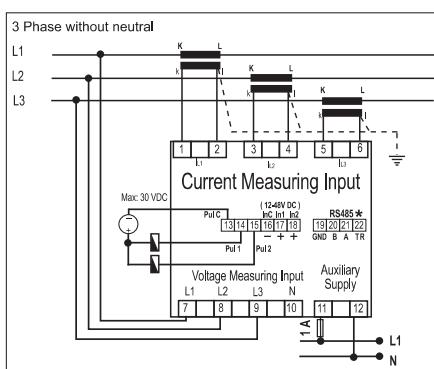


## Dimensions

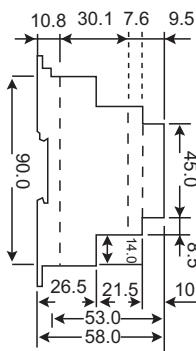
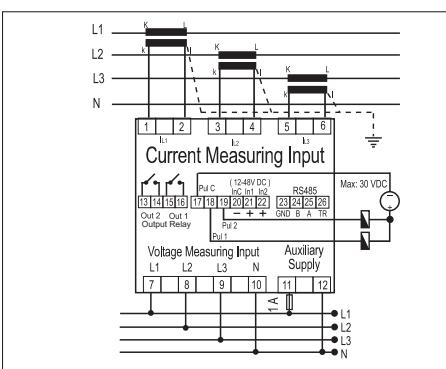


TYPE PR 19

MPR-53S



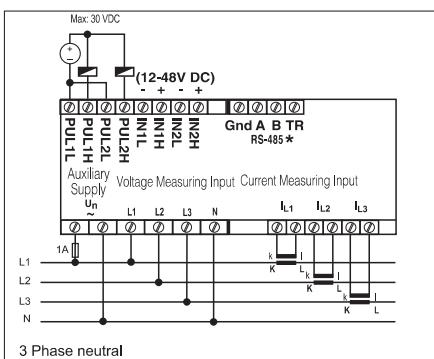
MPR-53CS



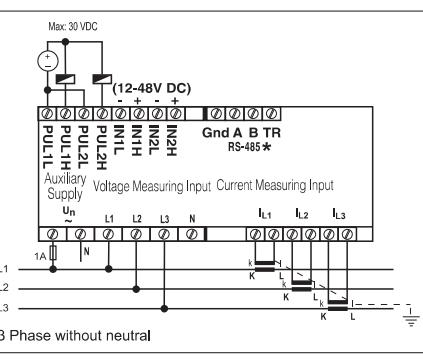
TYPE DIN / PK 26

(PK 26 - DIN6) \* RS-485 terminals are standard for EPM-07S and MPR-53S

MPR-53S

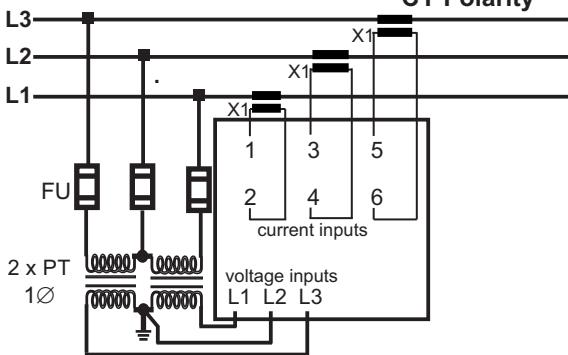


MPR-53S



3 Phase 3 wire Delta

\* Maintain CT Polarity



3 Phase 4 wire WYE

\* Maintain CT Polarity

