

Product Code

EPR-03-96																				
EPR-04-96																				
EPR-04-DIN																				
EPR-04S-96																				
EPR-04S-DIN																				
ES-32L	Digital Energy Counter (32 A)																			
ES-80L	Digital Energy Counter (80 A)																			

● Optional - Min. Order Quantity is 200pcs/device.

General

- EPR-04: Digital Power and Energymeter**
EPR-04 measures active / reactive / apparent power and active / reactive energy for each phase and cos ϕ in 4 displays.
- EPR-04S: Digital Powermeter with RS-485**
In addition to EPR-04 features, EPR-04S has RS-485 communication. Power, energy and cos ϕ values can be monitored via MPR-SW software.
- Software**
MPR-SW : Software for monitoring and recording parameters for MPR and EPR Series.

MODEL	EPR-04,EPR-04S	
SPECIFICATIONS		
HOUSING		
Dimensions	96x96mm PR19,DIN PK26	
Protection Class	IP40 Front Panel; IP54 Optional	
Weight	0,5 kg/device; 12 pcs.	
Display	Red LED, Height: 10 mm	
MEASUREMENTS		
Voltage		
Measuring Range	10-300V AC (L-N), 10-500VAC (L-L)	
Measuring Range with Transformer	Transformer Ratio: 1.0-4000	
Accuracy	1% ± 1 digit [(10%-110%)xFull Scale]	
Input Impedance	1.8 M Ω	
Burden	<0.5 VA	
Current		
Nominal Current	5,5A	
Lowest Current	50mA	
Measurement Range	5 mA - 5,5 A Accuracy: 0,5% ± 2 digit	
Measurement Range with Transformer	5 mA 10000 A Transformer Ratio: 1-5000.0	
Burden	<1VA	
Overload Current	1.2 In	
Power/Energy		
Active Power	0-215MW	
Reactive Power	0-215MVar	
Apparent Power	0-215MVA	
Power Consumption	<4VA	
Active Energy	9 999 999,9 Mwh	
Reactive Energy	9 999 999,9 MVarh	



EPR-04S-96

Features

- Non-flammable enclosure
- Double Insulation (□)
- Measurement Category III
- Terminal Connection
- Flush mounting with rear terminals
- IP40 (front panel), IP00 (terminals)
- IEC 61010-1, IEC 61000-6-2, IEC 61000-6-4



ES-32L

ES-32L / ES-80L : Watt-Hour Meter General

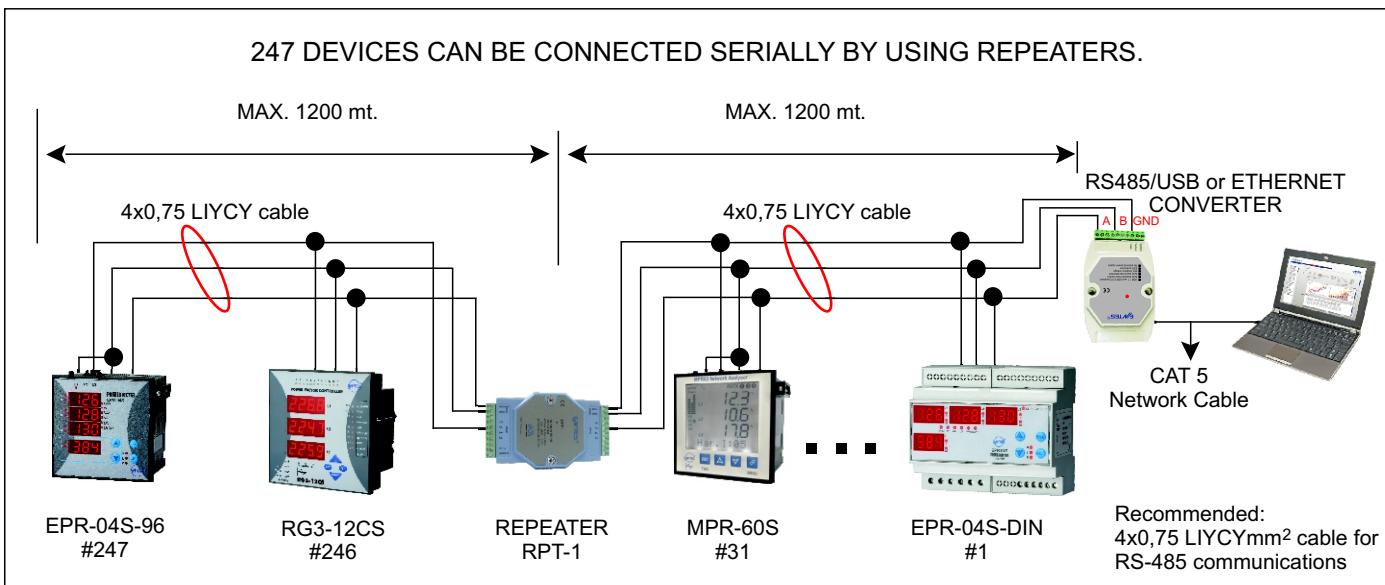
- ES Series measure the active watt hour (kWh) consumption directly and error free in single phase systems.
- The most important features of the device are its reliability, small size, light weight, modern design, and easy installation.

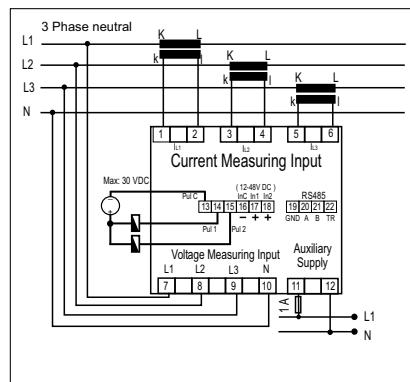
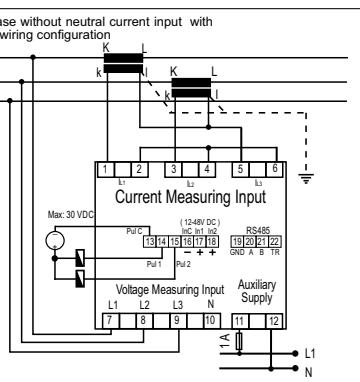
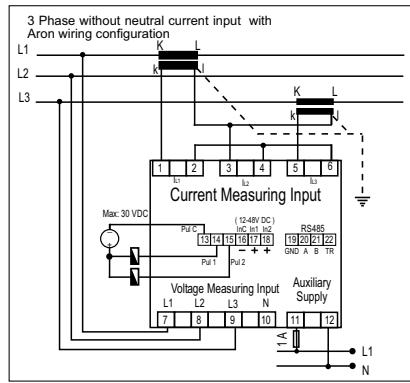
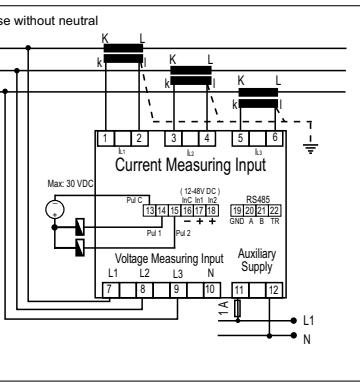
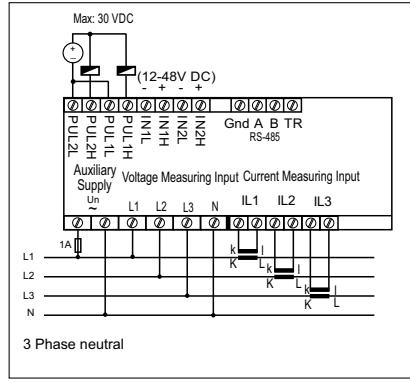
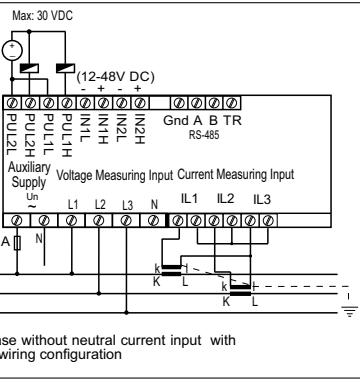
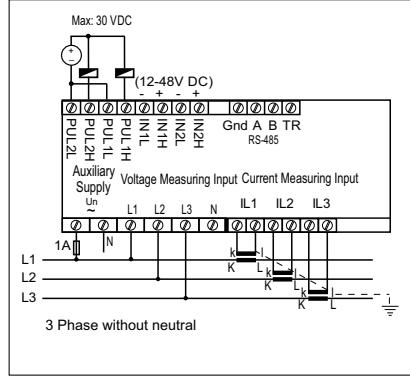
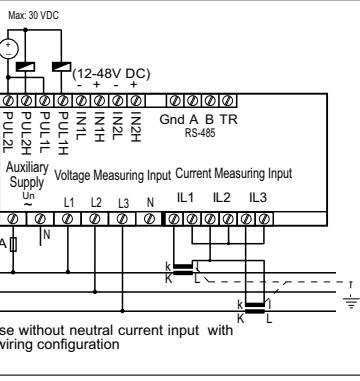
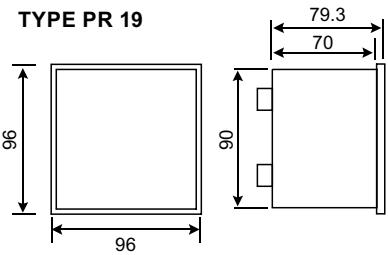
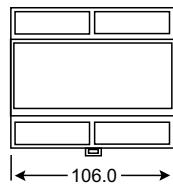
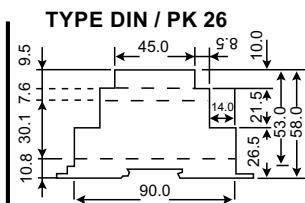
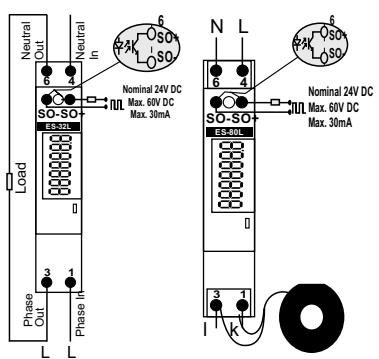
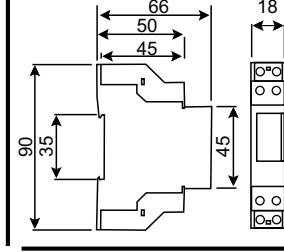
Max.
80A

MODEL	ES-32L	ES-80L
SPECIFICATIONS		
HOUSING		
Dimensions	IP 40	
Weight	60 gr./device; One package contains 10 pcs	60 gr.-74 gr.(CT80D)/device; One package contains
Display	6+1 digit	
Active Energy	0-999999.9 kWh	
Accuracy	Class 1	
Nominal Current	In=5A	In=40A
Lowest Current	0,02A	0,08A
Measurement Range	0,02-32A	0,08-80A
Measuring Range	0.5 VA	
Surge Voltage Test	4KV 1.2/50 microseconds IEC 1000-4-5	
Burst Test	4kV IEC 61000-4-4	
Frequency	50/60Hz	
Operating Voltage	230VAC - % 20 + % 15	
Operating Frequency	50/60 Hz	
Power Consumption	<2VA	
Pulse Output	1000Imp./kWh	
Pulse Duration	Ti=20ms.	

AMBIENT CONDITIONS	
Ambient Temperature	-20,+65°C
Oversupply Category	III
Type	Indoors
Ambient Humidity	%90
STANDARDS	
Standards	EN 62052 - 11 EN 62053 - 21
CONNECTIONS	
Installation	Rail-mount DIN En50022
Connection Terminals	With screws

TYPICAL INSTALLATION OF OUR NETWORK ANALYZERS & OTHER METERS

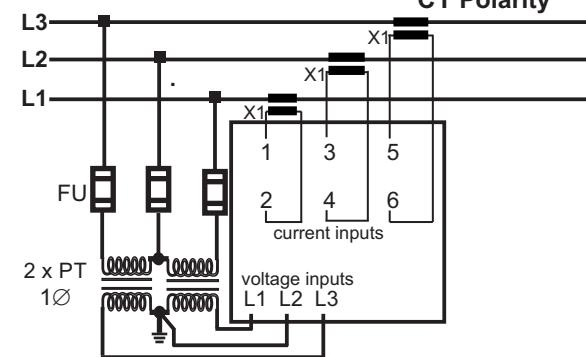


Connection Diagrams**EPR-04S****EPR-04S****EPR-04S****EPR-04S****(PK26 - DIN6)****EPR-04S****EPR-04S****EPR-04S****EPR-04S****Dimensions****TYPE PR 19****TYPE DIN / PK 26****Connection Diagrams****TYPE ES****TYPE ES**

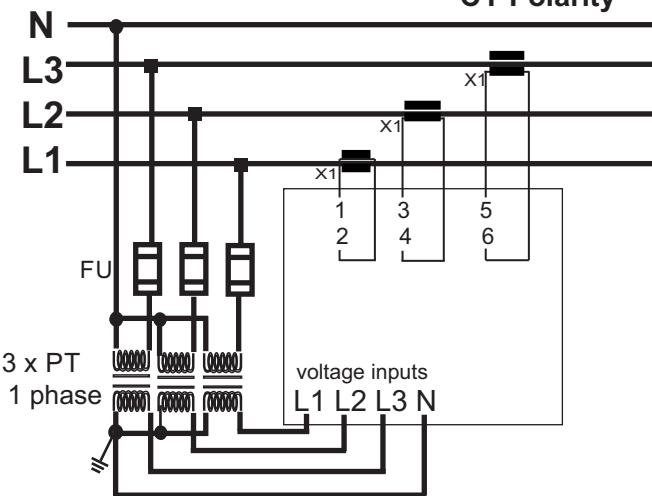
- The device has pulse outlets for remote reading and central data storage.
- By flashing, the LED on the front panel makes it possible to observe whether the measuring is active or not.
- The LCD display on the front panel makes easy and accurate power reading possible.

3 Phase 3 wire Delta

* Maintain
CT Polarity

**3 Phase 4 wire WYE**

* Maintain
CT Polarity



Connection diagrams are for reference only. Please always check the latest user manual included with product.