



EInet LTC Power Factor Controller & Energy powermeter allows measurement of power factor and power factor correction by using up to 16 stages ON/OFF switching control of capacitor banks.

The LTC enables automatic identification of capacitors' size and its connection in various methods, includes history data logging. Up to 32 partial harmonics monitoring, 6 months of daily based energy and supports standard communication protocols Modbus and BACnet (optional) with simple integration into Building Management Systems over RS485 or Ethernet TCP (optional).

Technical Data

Power Requirements:	90 ~ 250 VAC 110 ~ 280 VDC 60/50 Hz 8VA
Dimensions (HxWxD):	144 x 144 x 100 mm
Shipping Weight:	1.00 Kg.
Environmental:	
Operation.	-20 ~ +70 °C
Storage.	-20 ~ +70 °C
Humidity	0 ~ 95 RH% non-condensing
Front Panel Protection	IP64

Communication

RS485 port:	Up to 115200 bauds Modbus RTU. BACnet MSTP , (Optional)
Ethernet (TCP/IP):	Modbus and BACnet IP + Web browser capability (Optional)

Input & Output Rating

Accuracy:	Active energy 0.2% Reactive energy 0.2%
Voltage: Line-Line	0 ~ 950 VAC RMS
Line-Neutral	0 ~ 550 VAC RMS
Maximum Burden	1000V RMS Continuous < 0.06VA
Current: Rated	0-1 A or 0-5 A
Overload	50 A RMS Continuous
Withstand Burden	100 A for 1 minute < 0.05 VA
Display:	High resolution LCD display 128x64 pixels
Maximum Input Voltage:	1000V
Maximum Input Current:	6A
Digital inputs:	2, 230VAC (ON)
Digital output:	16, relay output, max load 5A

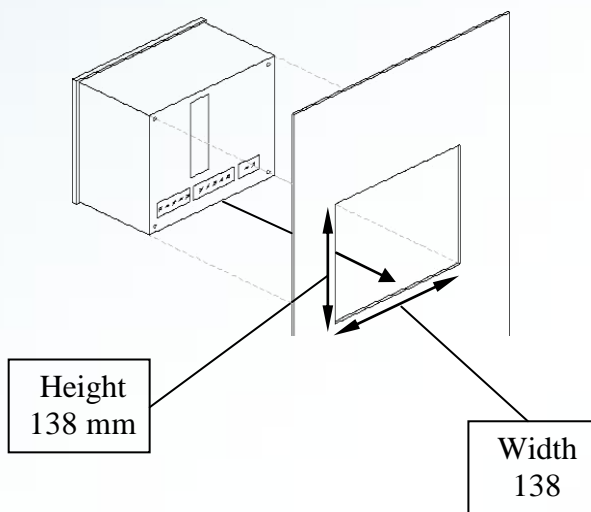
RADIO SURTIDORA, S.A. de C.V.

Measurement & Display Values

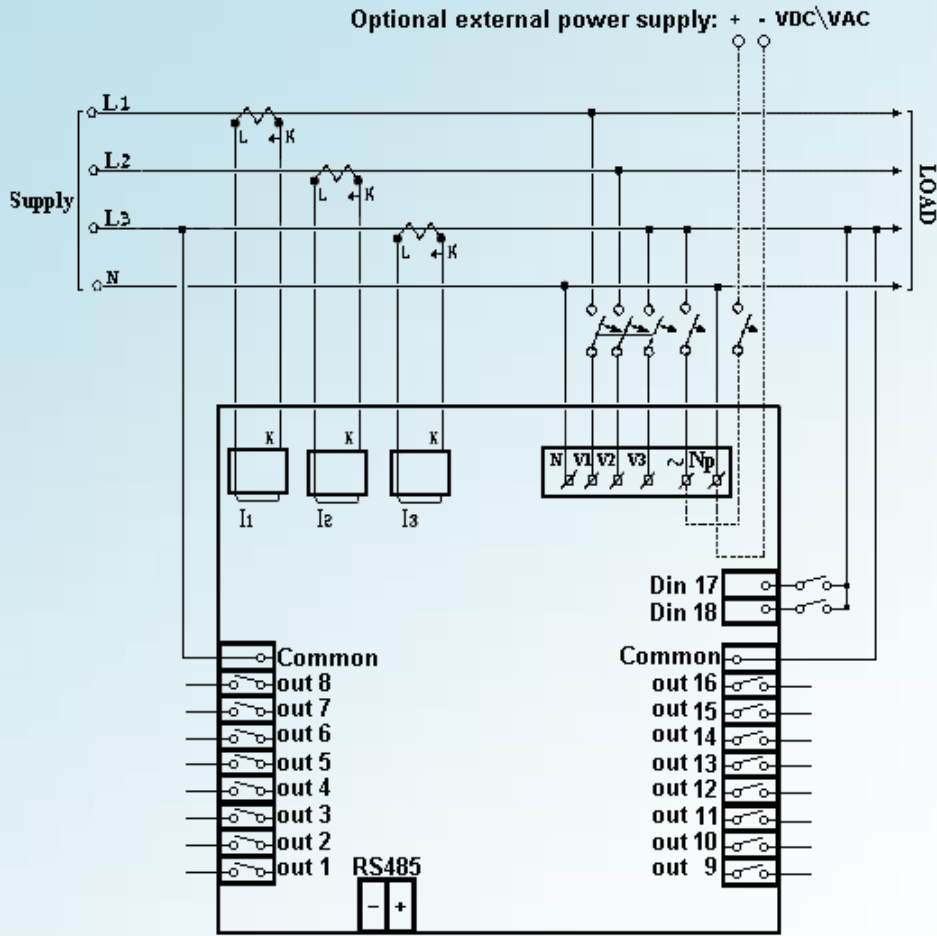
Measurement Parameter	Display Range in direct connection (scaling factor 1)	Measuring in direct connection (scaling factor 1)	Display Range
Current	0.001 – 6A	0.001 – 6A	0.001 – 99999KA
Neutral Current (calculated)	0.001 – 6A	0.001 – 6A	0.001 – 99999KA
Voltage L-N	0.000 – 550 V	0.000 – 550 V	0.001 – 99999KV
Voltage L-L	0.000 – 650 V	0.000 – 650 V	0.001 – 99999KV
Frequency (Hz)	45.001-65.001 Hz	45.001-65.001 Hz	45.001-65.001 Hz
Active power total\phase			0.000W – 99999MW
Reactive power total\phase			0.000VAR - 99999MVAR
Apparent power total\phase			0.000VA - 99999MVA
Power Factor (cap.\ind.)	-1.000 ÷ 1.000	-1.000 ÷ 1.000	-1.000 ÷ 1.000
Active Energy total\phase			0.001WH – 99999999MWH
Reactive Energy total\phase			0.001VARH - 99999999MVARH
Apparent Energy total\phase			0.001VAH - 99999999MVAH
Harmonic THD V\I			0.000 – 100%
Partial Harmonic V\I			0.000 – 100%
Operating hour meter			99999-HH:MM:SS

Standards

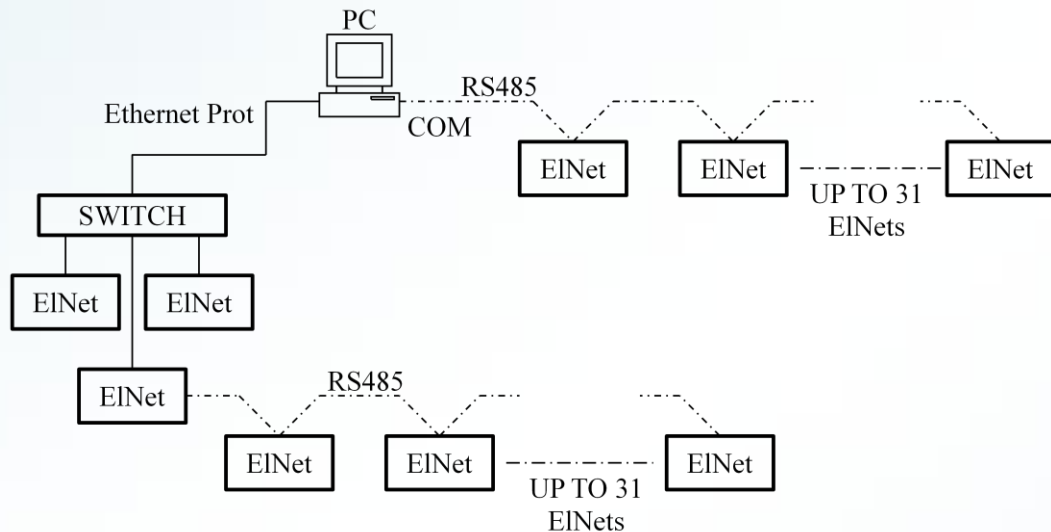
IEC 60051-5
 EN 55022, Class A, Amendments A1; A2
 EN 55024, Amendments A1; A2
 EN 61000-3-2, Class A
 EN 61000-3-3, Amendment A1
 IEC 61000-4-2
 IEC 61000-4-3
 IEC 61000-4-4
 IEC 61000-4-5
 IEC 61000-4-6
 IEC 61000-4-11



Mechanical mounting



Wiring Diagram Example



— TCP/IP ETHERNET (Shielded & Grounded)

- - - - RS485 (Shielded & Grounded)

Communication Diagram Example