

ELNet^{LT-L} Energy meter & Electrical Powermeter



ELNet LT model L energy powermeter is a compact, multi functional, three-phase energy powermeter, especially designed to meet the stringent needs of power and energy measurement in any electrical installation.

ELNet LT model L supports standard communication protocols such as BACnet MSTP and Modbus RTU, with simple integration into Building Management Systems over RS485 communication.

An indispensable tool for the Building Engineer, it aids efficient use of electricity by showing Power Factor, Max and Min demand, Current in Neutral Line and THD.

Technical Data

Power Requirements:	90 ~ 250 VAC 110 ~ 280 VDC 60/50 Hz 9VA
Dimensions (HxWxD):	96 x 96 x 80 mm
Shipping Weight:	0.65 Kg.
Environmental:	
Operation.	-20 ~ +70 °C
Storage.	-20 ~ +70 °C
Humidity	0 ~ 95 RH% non-condensing
Front Panel Protection	IP64
Memory size:	Flash memory dedicated for 6 months of daily energy and additional 1MB memory.

Communication

RS485 port:	Up to 115200 bauds Modbus and BACnet
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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 color LCD display 320x240 pixels
Maximum Input Voltage:	1000V
Maximum Input Current:	6A
Digital inputs:	2, 230VAC (ON)
Digital output:	1, dry contact maximum load 250mA



CONTROL APPLICATIONS Ltd.

Supervision & control system

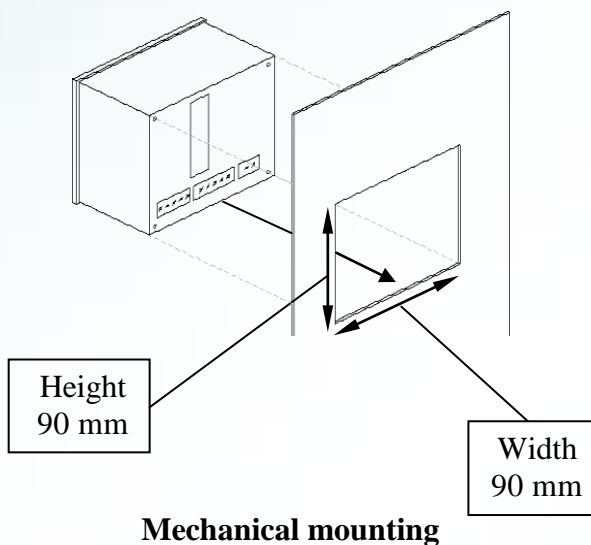
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Measurement & Display Values

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 – 950 V	0.000 – 950 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%

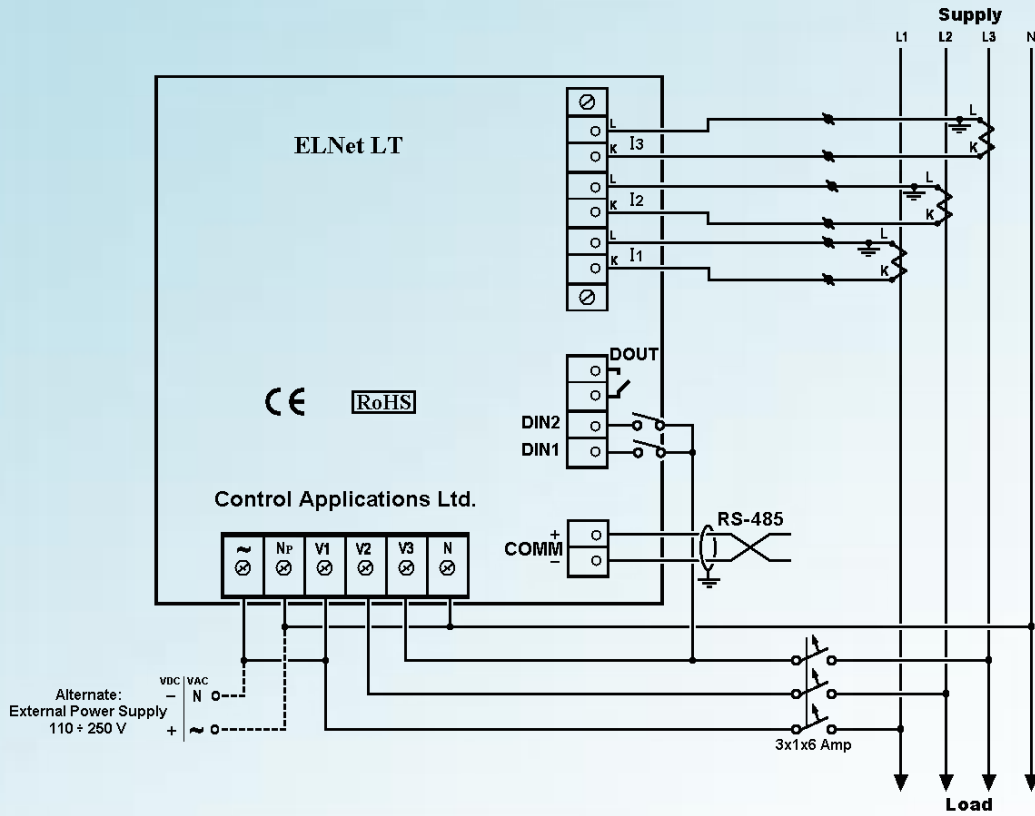
Standards

IEC 62053-22
 IEC 62053-23
 IEC 62052-11
 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

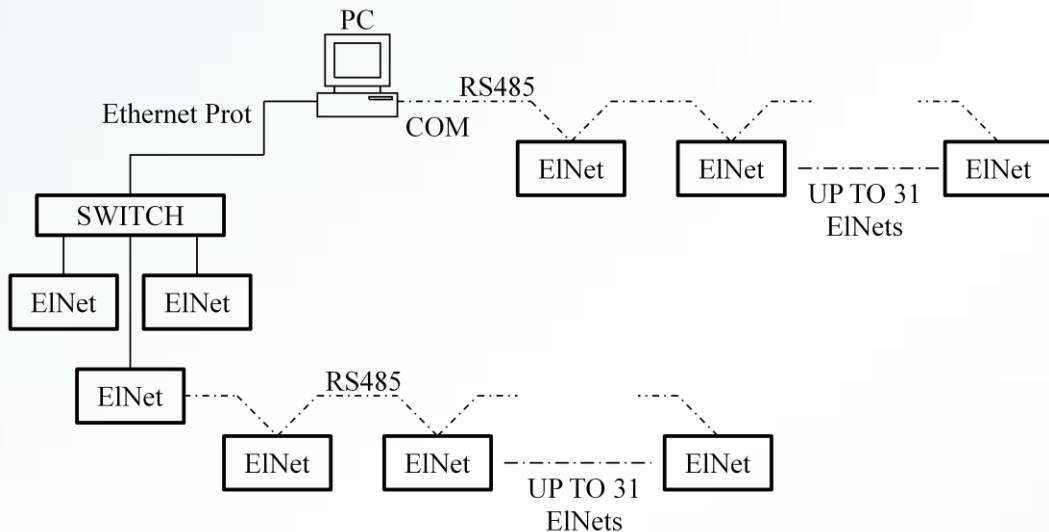


Mechanical mounting





Wiring Diagram Example



— TCP/IP ETHERNET (Shielded & Grounded)

- - - RS485 (Shielded & Grounded)

Communication Diagram Example