ELNet-PQ multimeter is a highly accurate multifunctional, three-phase power quality analyzer, the unit is especially designed to meet the stringent needs of power analyzing in any electrical network. ELNet PQ allows producing a detailed report according to EN50160 standard as well providing records of the wave forms during the power quality events (such as Sag, Swell etc with sampling resolution of 160 bit per cycle). The PQ model allows analyzing and receiving Profile recording and Event recording such as minimum and maximum RMS value over 10 min of voltage, current, harmonics, power and power factor. Voltage Unbalanced (positive and negative as well as Zero Sequence). PST and PLT.

ELNet-PQ includes history data logging and supports standard communication protocols BACnet and Modbus with simple integration into Building Management Systems over RS485 or Ethernet TCP.



In addition to power quality monitoring the PQ stores the daily based energy, showing the Power Factor, Max and Min demand, Voltage, Current, THD, TDD, K Factor, up to 64th Harmonics, phasor diagram and much more.

Technical Data		Input & Output Rating	
Power Requirements:	90 ~ 250 VAC 110 ~ 280 VDC	Accuracy:	Active energy 0.2% Reactive energy 0.2%
	60/50 Hz 8VA	Voltage: Line-Line Line-Neutral	0 ~ 950 VAC RMS 0 ~ 550 VAC RMS
Dimensions (HxWxD):	144 x 144 x 100 mm	Maximum Burden	1000V RMS Continuous < 0.06VA
Shipping Weight: Environmental: Operation. Storage. Humidity	1.00 Kg. -20 ~ +70 °C -20 ~ +70 °C 0 ~ 95 RH%	Current: Rated Overload Withstand Burden Display:	0-1 A or 0-5 A 50 A RMS Continuous 100 A for 1 minute < 0.05 VA High resolution color LCD
Front Panel Protection: Memory size:	non-condensing IP64 4GB	Maximum Input Voltage:	display 320x234 pixels
Communication		Maximum Input Current: Digital inputs: Digital output:	6A 4, 230VAC (ON) 3, dry contact maximum
RS485 port:	Up to 115200 bauds Modbus RTU, BACnet MSTP		load 250mA
Ethernet (TCP/IP):	(Modbus and BACnet IP + Web browser capability		

## **Measurement & Display Values**

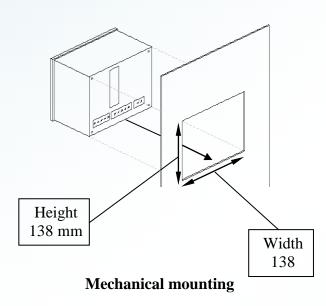
Measurement Parameter	Display Range in direct connection (scaling factor 1)	Measuring in direct connection (scaling factor 1)	Display Range
Current	0.001 – 6A	0.001 – 6A	0.001 – 999998A
Neutral Current	0.001 – 6A	0.001 – 6A	0.001 – 99999KA
Voltage L-N	0.000 – 550 V	0.000 – 550 V	0.001 – 99999KV
Voltage 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 – 999999999MWH
Reactive Energy total\phase			0.001VARH - 999999999MVARH
Apparent Energy total\phase			0.001VAH - 999999999MVAH
Harmonic THD V\I			0.000 - 100%
Partial Harmonic V\I			0.000 - 100%
Operating hour meter			99999-HH:MM:SS

# 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
IEC 61000-4-30 class A compatible
IEC 61000-4-7 compatible
IEC 61000-4-15 compatible

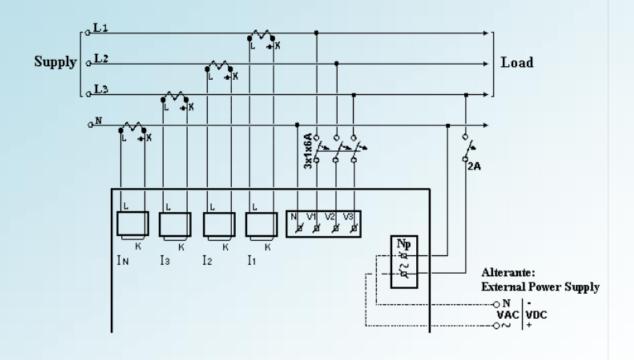
# Accuracy (FS):

Voltage	±0.2 %	
Current	$\pm 0.2\%$	
Energy	$\pm 0.2\%$	
Power	$\pm \ 0.4$ %	
Frequency	$\pm 0.05\%$	
Power Factor	$\pm 0.5\%$	

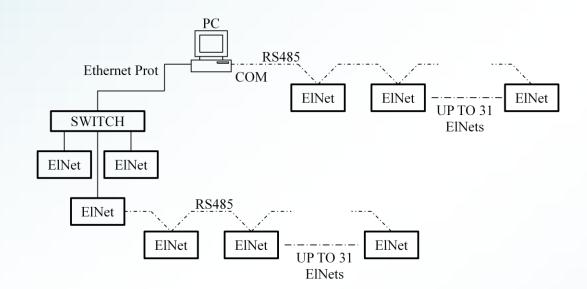




electrical multimeter & power quality analyzer



#### **Wiring Diagram Example**



TCP\IP ETHERNET (Shielded & Grounded)

---- RS485 (Shielded & Grounded)

## **Communication Diagram Example**

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