

ELNet

Energy & Power Quality Powermeter



EXCLUSIVELY DISTRIBUTED BY:

MONTRELEC
INCORPORATED

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ELNet GR/PQ

Energy & Power quality analyzer

Accuracy 0.2% (0.1% optional special calibration).
 1,600 samples per cycle.
 EN50160 testing reports (PQ only).
 On events waveform recording (PQ only).
 Electrical variables display.
 Data logging – up to 2 years.
 Ethernet (TCP/IP) & RS-232/485 ports.
 Modbus and BACnet protocols (RTU/MSTP/IP).
 Web browser capability.
 Programmable Relays.
 Multilingual simple operated menus.
 Fast trend reports.
 Harmonics measurements – up to 64th Harmonic.
 Historical log with up to 1,000 Alarms.
 5.7" High resolution display (320x234) pixels.
 Waveform and 3D Bar graph Displays.
 Panel / DIN Rail mounted.
 Additional Options: Fault Passage Detection, Neutral to Earth, voltage measurement, Drift Current measurement, Neutral line current measurement, Unbalanced Current & Voltage measurements.

Technical Specifications

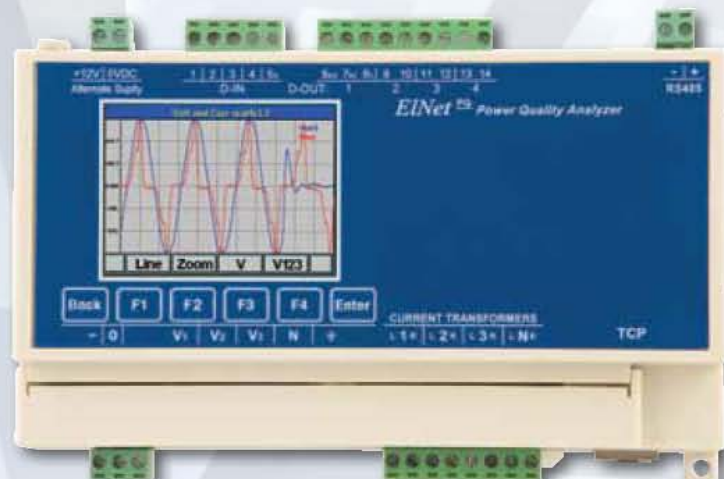
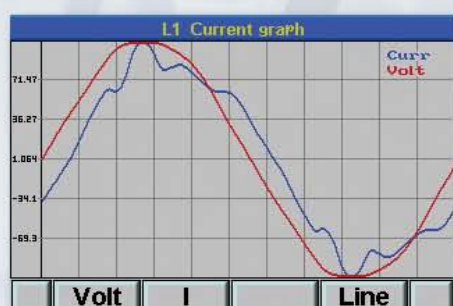
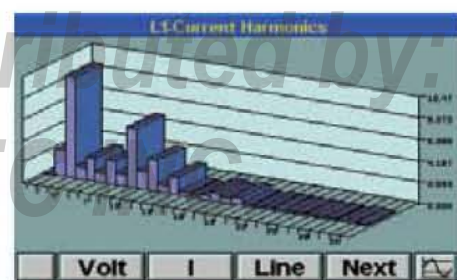
Power Requirements	: 90 - 250 VAC
	: 110 - 280 VDC
	: 12 - 70 VAC/DC (optional)
	: 60/50 Hz
	: 8VA
Dimensions (H x W x D)	: 144 x 144 x 100 mm
Shipping Weight	: 1,000 gr.
Working Conditions	: -20 – 70°C
	: 0 - 95 RH%

Measurement Range:

Voltage	: 0 - 650 VAC
Voltage (with transformer)	: up to 99999 KV
Current (with transformer)	: up to 99999 KA
Maximum Input Voltage	: 1000V
Maximum Input Current	: 6A

Standard Approvals:

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



ELNet LT

Power Quality & Energy Powermeter

Accuracy 0.2 (0.1 % optional special calibration).
1,600 samples per cycle.
Electrical variables display.
Up to 6 months of energy data logging.
Build in T.O.U Energy meter.
Harmonics measurements - up to 64th Harmonic.
Multilingual simple operated menus
RS-485 Communication Port.
Modbus and BACnet protocols (RTU/MSTP).
Programmable output (SO).
High Resolution color display (320x240 pixels).
Display of Waveform and Bar graph.
Simple installation – panel mounted.
Additional Options: Drift Current measurement,
Neutral line current measurement,
TCP/IP & Web browser, email alarm message,
fast trend report.

Technical Specifications

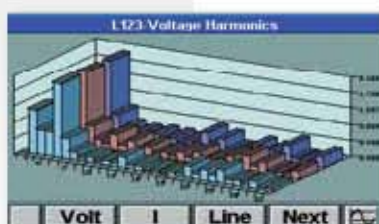
Power Requirements	: 90 - 250 VAC
	: 110 - 280 VDC
	: 60/50 Hz
	: 8VA
Dimensions (H x W x D)	: 96 x 96 x 80 mm
Shipping Weight	: 650 gr.
Working Conditions	: -20 – 70°C
	: 0 - 95 RH%

Measurement Range:

Voltage	: 0 - 650 VAC
Voltage (with transformer)	: up to 99999 KV
Current (with transformer)	: up to 99999 KA
Maximum Input Voltage	: 1000V
Maximum Input Current	: 6A

Standard Approvals:

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



ELNet LTE Energy Powermeter

Voltage, Current, Frequency,
Power & Power Factor measurements.
THD-I & THD-V measurements.
Three phase Energy metering (optional).
Peak values display of all measurements.
Power demand for current and real power.
Accuracy 0.5% (0.2% optional).
High resolution color display (320x240 pixels).
RS-485 Communication Port (Modbus).
Phase disorder & absence output.
Simple installation – panel mounted.

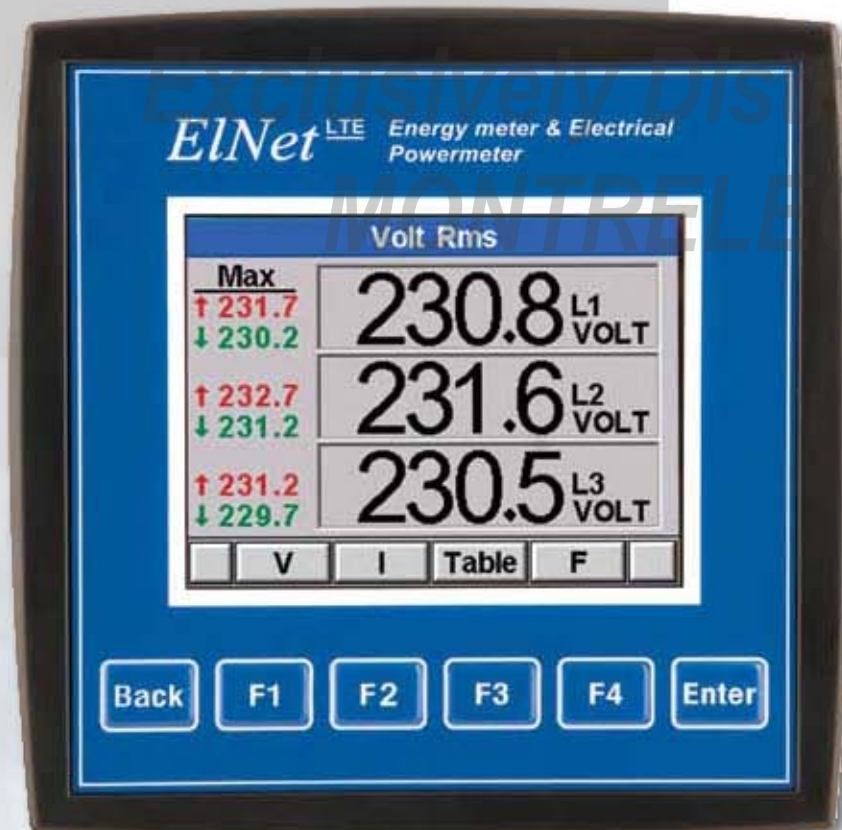
Technical Specifications

Power Requirements : 90 - 250 VAC
: 110 - 280 VDC
: 60/50 Hz
: 8VA
Dimensions (H x W x D) : 96 x 96 x 80 mm
Shipping Weight : 450 gr.
Working Conditions : -20 – 70°C
: 0 - 95 RH%

Measurement Range:

Voltage : 0 - 650 VAC
Voltage (with transformer) : up to 99999 KV
Current (with transformer) : up to 99999 KA
Maximum Input Voltage : 1000V
Maximum Input Current : 6A

Standard Approvals: IEC 60051-3



Combined Table			
	L1	L2	L3
V-LN	230.6	232.6	230.9
V-LL	400.2	401.5	400.1
AMP	2.5	1.8	3.0
KW	0.6	0.4	0.7
KVAR	0.1	0.1	0.2
KVA	0.6	0.4	0.7
PF	0.958	0.990	0.983
Hz	50.15	50.15	50.15

Power Factor			
Max			
↑ 0.997	0.981	L1	PF
↓ 0.957			
↑ 1.000	1.000	L2	PF
↓ 0.986			
↑ 0.990	0.954	L3	PF
↓ 0.940			
	P	Q	S

Set Communication	
ADDRESS	1
BAUDRATE	4800
PARITY	EVEN
	- + ↑ ↓

Total Power	
Max	
↑ 1.813	1.692 EP KW
↓ 1.496	
↑ 1.839	1.639 ES KVA
↓ 1.541	
↑ 0.442	0.280 EQ KVAR
↓ 0.169	
	P

Total Energy	
4134.941	KWH
4184.562	KVAH
642.517	KVRH
	L1

Combined Table			
	Volt	Amper	
L1	231.2 V	2.531 A	
L2	231.4 V	2.099 A	
L3	230.4 V	2.987 A	
L12	400.6 V	Current Line 0	
L23	399.9 V		
L13	399.8 V		0.461 A
	V	I	PF

ELNet VIP Powermeter

Three phase Powermeter.
Voltage, Current, Frequency, Power &
Power Factor measurements.
Peak values display of all measurements.
Power demand for current and real power.
Phase disorder & absence output.
Accuracy 0.5% .
LCD backlight display.
Phase (LED) status indication.
Simple installation – panel mounted.

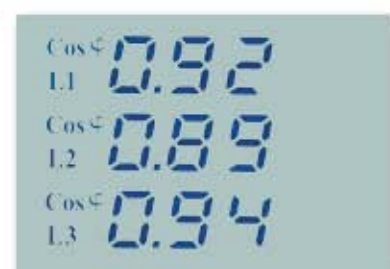
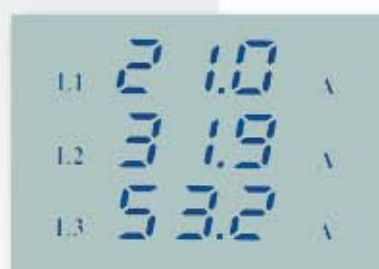
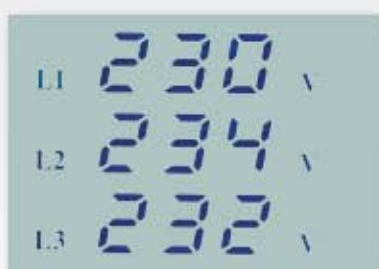
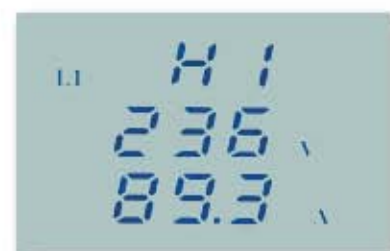
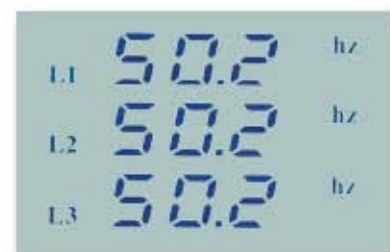
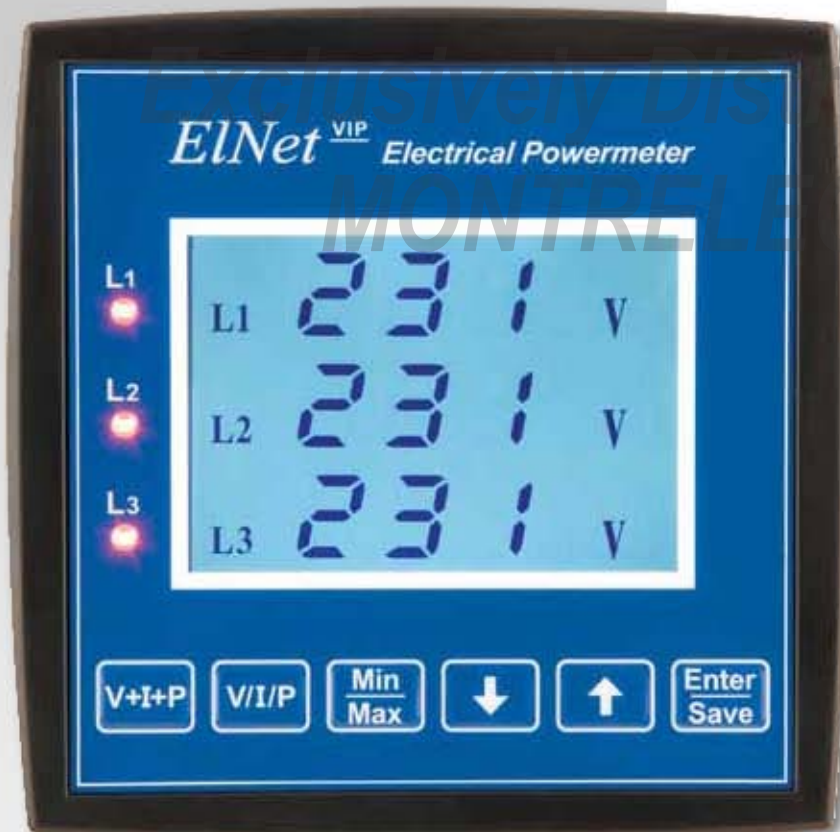
Technical Specifications

Power Requirements	: 90 - 250 VAC
	: 110 - 280 VDC
	: 60/50 Hz
	: 8VA
Dimensions (H x W x D)	: 96 x 96 x 80 mm
Shipping Weight	: 450 gr.
Working Conditions	: -20 – 70°C
	: 0 - 95 RH%

Measurement Range:

Voltage	: 0 - 650 VAC
Voltage (with transformer)	: up to 999 KV
Current (with transformer)	: up to 999 KA
Maximum Input Voltage	: 1000V
Maximum Input Current	: 6A

Standard Approvals: IEC 60051-3



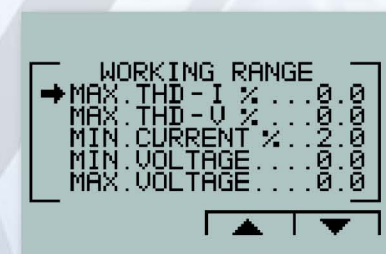
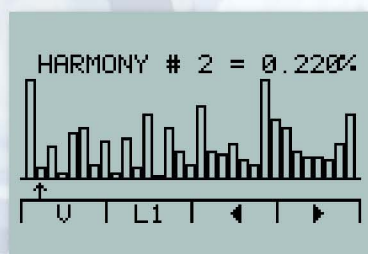
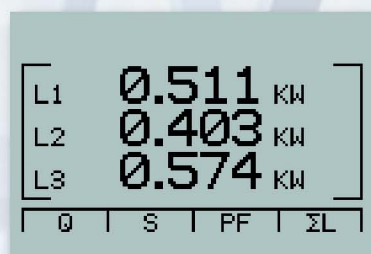
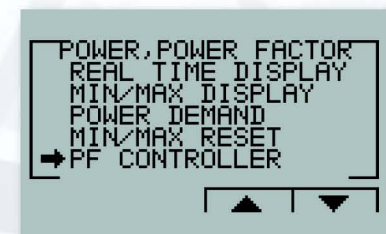
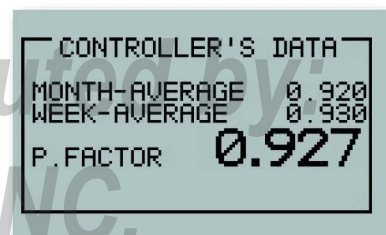
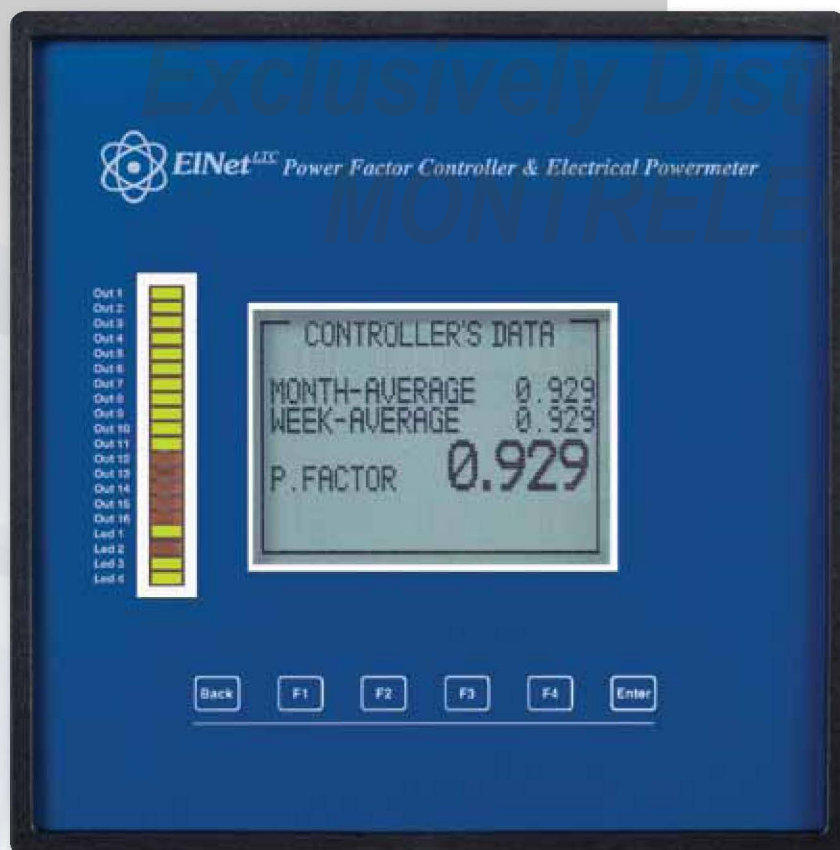
ELNet LTC Power Factor Controller

Up to 16 switching relay stages.
Real time Power Factor display.
Voltage, Current, Power Factor & Harmonics measurements.
Weekly & monthly Power Factor display.
Auto detection of capacitors size.
Harmonic's protection.
Voltage & Current limits setting.
Accuracy 0.2 %.
1,600 samples per cycle.
Up to 6 months of energy data logging.
High Resolution display (128x64 pixels).
Multilingual simple operated menus.
RS-485 Communication Port.
Modbus and BACnet protocols
TCP/IP port & Web browser capability (optional).
Simple installation – panel mounted.

Technical Specifications

Power Requirements	: 90 - 250 VAC
	: 110 - 280 VDC
	: 60/50 Hz
	: 8VA
Dimensions (H x W x D)	: 144 x 144 x100 mm
Shipping Weight	: 1,000 gr.
Working Conditions	: -20 – 70°C
	: 0 - 95 RH%
Measurement Range:	
Voltage	: 0 - 650 VAC
Voltage (with transformer)	: up to 99999 KV
Current (with transformer)	: up to 99999 KA
Maximum Input Voltage	: 1000V
Maximum Input Current	: 6A

Standard Approvals: IEC 600051-5



ELNet PFC

Power Factor Controller

Up to 6 switching relay stages.
Real time Power Factor display.
Voltage, Current & Power Factor measurements.
Weekly & monthly Power Factor display.
Harmonic's protection.
Voltage & Current limits setting.
THD-I & THD-V measurements.
Accuracy 0.5% .
Auto detection of capacitors size.
High Resolution display (128x64 pixels).
Multilingual Simple operated menus.
Simple installation – panel mounted.

Technical Specifications

Power Requirements : 90 - 250 VAC
: 110 - 280 VDC
: 60/50 Hz
: 8VA
Dimensions (H x W x D) : 96 x 96 x 80 mm
Shipping Weight : 650 gr.
Working Conditions : -20 – 70°C
: 0 - 95 RH%

Measurement Range:

Voltage : 0 - 650 VAC
Voltage (with transformer) : up to 99999 KV
Current (with transformer) : up to 99999 KA
Maximum Input Voltage : 1000V
Maximum Input Current : 6A

Standard Approvals: IEC 60051-5



CONTROLLER'S DATA					
MONTH-AVERAGE		0.920			
WEEK-AVERAGE		0.920			
P. FACTOR		0.924			
1	2	3	4	5	6
ON	OFF	ON	OFF	OFF	OFF

L1	2.697	AMP
L2	1.977	AMP
L3	2.716	AMP
V-L V-P F		

THD-I		
L1	THD-I	3.450 %
L2	THD-I	3.670 %
L3	THD-I	3.320 %
MAX. THD-I		5.840 %
PF THD-V		

WORKING RANGE	
→ MAX. THD-I %	0.0
MAX. THD-V %	0.0
MIN. CURRENT %	2.0
MIN. VOLTAGE	0.0
MAX. VOLTAGE	0.0

VITAL SETTING	
POWER FACTOR	
+000000.920	
↑	

L1	0.991	PF
L2	0.990	PF
L3	0.955	PF
THD-V THD-I		

ELNet PIC

Energy Powermeter

Accuracy 0.2 %.
1,600 samples per cycle.
Up to 6 months of energy data logging.
Build in T.O.U Energy meter.
Simple operated menus.
RS-485 Communication Port.
Modbus and BACnet protocols.
LCD display (2x12 characters).
Simple installation – DIN Rail mounted.

Technical Specifications

Power Requirements : 90 - 250 VAC
: 110 - 280 VDC
: 60/50 Hz
: 8VA
Dimensions (H x W x D) : 96 x 76 x 57 mm
Shipping Weight : 450 gr.
Working Conditions : -20 – 70°C
: 0 - 95 RH%

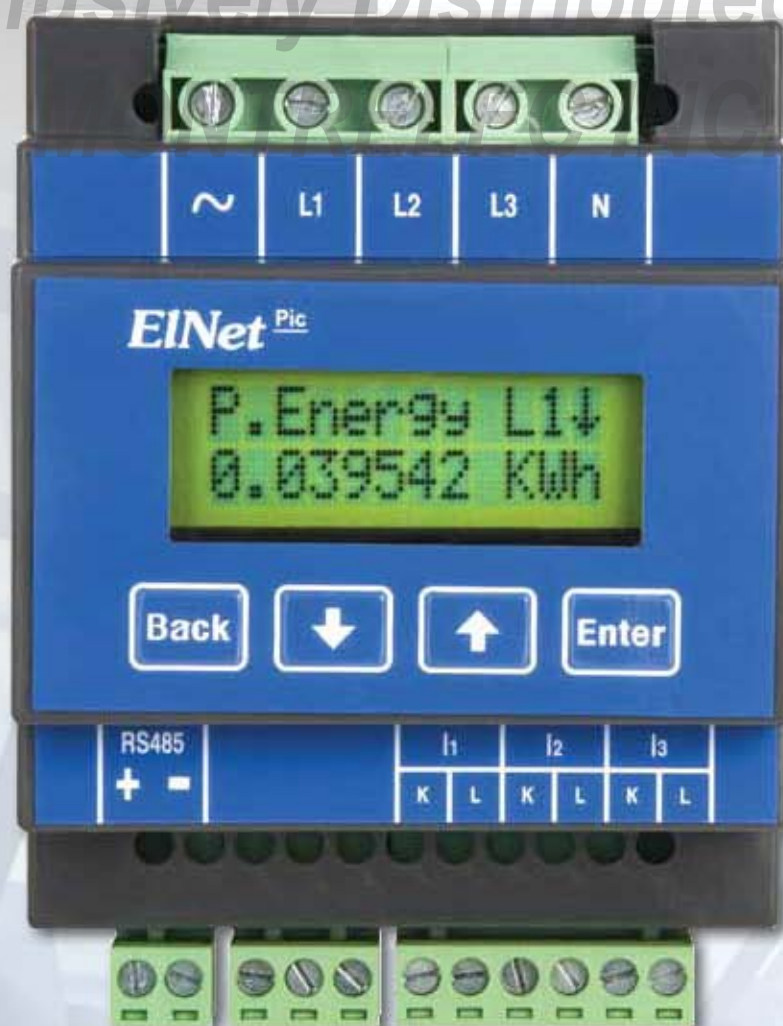
Measurement Range:

Voltage : 0 - 650 VAC
Voltage (with transformer) : up to 99999 KV
Current (with transformer) : up to 99999 KA
Maximum Input Voltage : 1000V
Maximum Input Current : 6A/72A
Supported Current Sensors : 0.333 V / 1 Amp /
5 Amp / 63 Amp

Standard Approvals:

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

Exclusively Distributed by:



ELNet MC

Multi channels Energy Powermeter

Up to 12 sets of three phase energy meters or
Up to 36 single phase energy meters or
Up to 36 Digital Inputs.
Up to 4 months of energy data logging.
Electrical variables displays.
1,600 samples per cycle.
Accuracy 0.2 %.
Ethernet (TCP/IP) and RS-485 ports.
Modbus and BACnet protocols (RTU/MSTP/IP).
Web browser capability.
Simple operated menus.
Advanced LCD backlight display.
Simple installation – DIN Rail mounted.
Multilingual support.

Technical Specifications

Power Requirements
: 90 - 250 VAC
: 110 - 280 VDC
: 60/50 Hz
: 11VA

Dimensions (H x W x D) : 110 x 300 x 60 mm

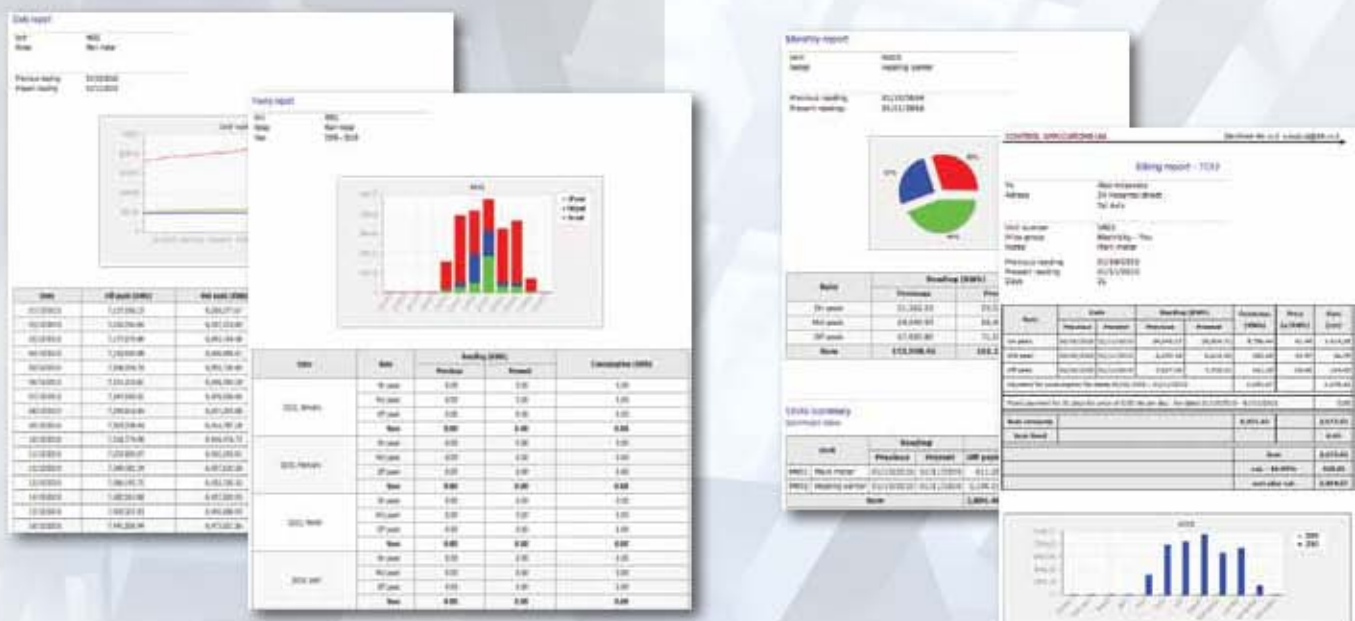
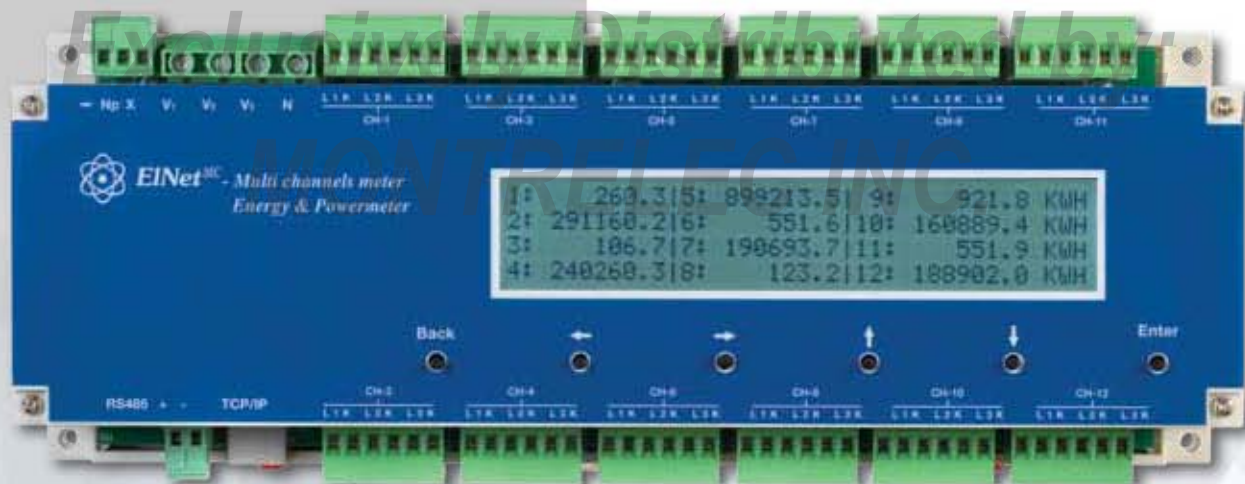
Shipping Weight : 1,250 gr.

Working Conditions
: -20 – 70°C
: 0 - 95 RH%

Measurement Range:
Voltage : 0 - 650 VAC
Voltage (with transformer) : up to 999999999 MV
Current (with transformer) : up to 999999999 MA
Maximum Input Voltage : 1000V
Maximum Input Current : 6A
Supported Current Sensors : 0.333 V / 1 Amp /
5 Amp / 63 Amp

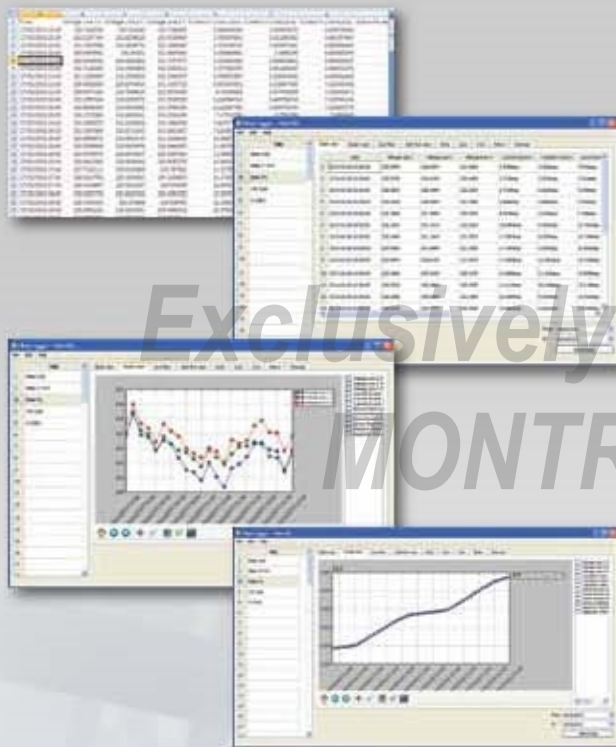
Standard Approvals:

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



ELNet Logger Software

ELNet Logger is a user friendly software package that is especially designed for monitoring and data logging from electrical networks. ELNet Powermeters Data Logging. Graphic Display of Trends over time. Display of Real Time Measurements. User-friendly Interface.



ELNet Billing Web Software

ELNet Billing is a user friendly software package that is especially designed for logging electrical energy consumption from ELNet Powermeters and generating electrical bills. ELNet Billing provides detailed energy reports on a daily, monthly and annual basis, as well as advanced T.O.U billing capabilities. Data can be exported to Excel data base.



Exclusively Distributed by:
MONTRELEC INC

ELNet PQ Web Software

ELNet PQ is a Web Server software package that is especially designed to enable monitoring and generating reports by using a standard web browser. Historical data reports. Logs: events, waveforms, faults. EN50160 reports for power quality. Historical Alarms report.

