

ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > ENERGY ANALYZERS



KLEA 220P-B

Stock Keeping Unit (SKU): 606163

Energy Analyzer - Basic Model

Commercial Information

Product Sales Code	606163
Package Unit	1 pcs.
Customs Tariff Number	903032009011
Weight Per Unit Including Packaging	0.378 kg.

Technical Information

General	
Password Protection	+
Voltage Transformer Ratio Vtr	1 - 5000
Current Transformer Ratio Ctr	1 - 5000
Number Of Measurements In One Period	256
Lcdscreen Refresh Rate	1 sn.
Networks	TT, TN, IT
Signal Waveforms	--
Connection Type	3F4T, 3F3T
Four Quadrant Measurement	4
Demand Period	1-60 min. adjustable
Phase Diagram	--
Minmaxdemand Values	+
Protection Class	Front IP40 / Rear IP20

Weight G	316
Packaging Quantity	1
Mounting Type	Panel Mount
Seven Segment Display	

Energy Measurement

Multiple Sub Tariffs Peak On Peak And Off Peak	--
1 Phase Energy Measurement	+
3 Phase Energy Measurement	+
Number Of Tariffs	1

Current Measurement Input

Measuring Range	10mA - 6A AC
Overvoltage Category	300 V Cat II
Voltage Fluctuation Measurement	2 kV
Power Consumption	<0.2 VA
Intermittent Overload	100 A for 1 sec
Sampling Frequency Between 45 65 Hz	12.8 kHz

Voltage Measurement Input

Overvoltage Category	300 V Cat III
Measuring Range L N	1-300 Vrms
Measuring Range L L	2-500 Vrms
Frequency Measuring Range	45-65 Hz
Power Consumption	<0.1 VA
Sampling Frequency Between 45 65 Hz	12.8 kHz

Power Quality Measurements

Thd Voltage As	+
Thd Current As	+
Harmonics For Current And Voltage Phases	Up to 31st

Measuring Accuracy Iec 61557 12

Total Active Power	Class 0.5
Total Reactive Power	Class 1
Total Reactive Energy	Class 2
Frequency	Class 0.1
Current	Class 0.5
Neutral Current	Class 0.5
Voltage	Class 0.2
Power Factor	Class 0.5
Thdv Thdi	Class 1
Total Apparent Power	Class 0.5
Total Active Energy	Class 0.5

Measuring Accuracy Iec 62053 22

Total Active Energy	Class 0.5S
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Measuring Accuracy Iec 62053 23

Total Reactive Energy	Class 2
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Alarm Relay Outputs

Number Of Outputs	--
Type	--
Max Switching Current	--
Max Switching Voltage	--
Max Switching Power	--

Power Supply

Voltage	85-300V AC / 85-300V DC
Frequency	45-65Hz
Consumption	<4.5VA AC / <2W DC

Environmental Conditions

Operating Temperature	-20°C +70°C
Storage Temperature	-30°C +80°C

Relative Humidity Non Condensing	Maks. 95%
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Emc Emi

300 Vac Cat II According To IEC 61010 1	+
EN 55011A1	2010, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Diagrams

Mains Connection	
Digital I/O And Alarm Output Connections	
3 Wires With 3CT	
4 Wires With 3CT	
3 Wires With 2CT Note	CTs can be connected to any phase. In the figure, they are connected to Phase-1 and Phase-3.
Single Phase With 1CT Note	CT and VT can be connected to any phase. In the figure, they are connected to Phase-1.
Digital Output Connection	
Digital Input Connection	
Alarm Output Connection	
Analog Output Connection	

Communication

Protocol	Modbus RTU
Baud Rate	1200-57600 bps adjustable
Parity	Odd, Even, None
Stop Bit	1
Slave Id	1-247
Isolation	2750V RMS

Time Recorded Data Storage

Hourly Records	
Daily Records	
Monthly Records	
Demand	--

Cable Cross Sections Power Supply Voltage Current Relay Outputs

Loaded	2.5mm² - 14AWG
Unloaded	4mm² - 12AWG, 2x1.5mm² - 2x16AWG

Cable Cross Sections Digital Io Rs485 Analog Outputs

Loaded	1.5mm² - 16AWG
Unloaded	1.5mm² - 16AWG, 2x0.75mm² - 2x18AWG

Other Measurements

Operating Hours Operating Time Under Load	+
Open Time Open Time Without Load	+
Interruption Counter Number Of Power Interruptions	+