



ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > ENERGY ANALYZERS

KLEA 405R

Stock Keeping Unit (SKU): 606701

3Ø Energy Analyzer

Commercial Information

Product Sales Code	606701
Package Unit	1 pcs.
Customs Tariff Number	903032009011

Technical Information

General	
Lcd Screen	-
Language Support	English
Password Protection	+
Networks	TT, TN, IT
Signal Waveforms	-
Connection Type	3P4W, 3P3W
Battery	-
Real Time Clock	-
Demand Period	1-60 min. adjustable.
Packaging Quantity	1
Seven Segment Display	
Without Screen	

Minmax Data	+
Demand Data	+
Ghost Screen	+
Phasor Diagram Display	
Screen Refresh Period	1sn
Number Of Samples In The Period	

Energy Measurement

3 Phase Energy Measurement	+
Number Of Tariffs	2
Number Of Sub Tariffs	
1 Energy Measurement	+
Number Of Reactive Measurement Zones	2

Current Measurement Input

Measuring Range	50mA-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	

Voltage Measurement Input

Overvoltage Category	300 V Cat III
Measuring Range L N	10-300 Vrms
Measuring Range L L	17-500 Vrms
Frequency Measuring Range	45-65 Hz
Power Consumption	<0.1 VA
Sampling Frequency Between 45 65 Hz	

Power Quality Measurements

Harmonic Measurement Current And Voltage	-
Thdi	+

Thdv	+
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Measuring Accuracy Iec 61557 12

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

Measuring Accuracy Iec 62053 22

Total Active Energy	-
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Measuring Accuracy Iec 62053 23

Total Reactive Energy	-
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Alarm Relay Outputs

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

Power Supply

Voltage	85-300V AC - 85-300V DC
Frequency	45-65Hz
Consumption	<3VA AC - <2.5W DC

Mechanical Properties

Weight G	
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Protection Class	IP54
Mounting Type	Panel Mount

Environmental Conditions

Operating Temperature	-25°C +70°C
Storage Temperature	-30°C +80°C
Relative Humidity Non Condensing	Max. 95% (no condensation)

Communication

Protocol	Modbus RTU
Baud Rate	1200-57600
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	
Alarm Records	

Digital Output

Isolation Level	
Number Of Outputs	2
Voltage Switching Range	Transistor
Minimum Switching Frequency	5-30 VDC

Digital Input

Number Of Inputs	2
Isolation Level	3750 Vrms
Minimum Counting Frequency	100 Hz, 10 ms

Input Type	Dry Contact
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Ethernet Interface

Protocol	
Port	
Gateway Feature	
Performance	

Analog Output

Output Ranges 0.5 V, 0.10 V, 5.5 V, 10.10V, 0.20 Ma, 4.20 Ma	
Isolation	

Other Measurements

Operating Time Counter	+
Open Time Counter	+
Power Failure Counter	+

Basic Electrical Measurements

Current	+
Voltage	+
Frequency	+
Active Power	+
Reactive Power	+
Apparent Power	+
Power Factor	+
Cos	+

Cable Cross Sections Power Supply Voltage Relay

multi-core	2.5mm² - 14AWG
Single Core	4mm² - 12AWG, 2x1.5mm² - 2x16AWG

Cable Cross Sections Current

multi-core	4mm² - 12AWG, 2x1.5mm² - 2x16AWG
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Single Core	4mm² - 12AWG, 2x1.5mm² - 2x16AWG
Cable Cross Sections Digital Inputoutput Rs485 Analog Output	
multi-core	1.5mm² - 16AWG
Single Core	1.5 mm²-16 AWG, 2x0.75 mm²- 2x18 AWG