

ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > ENERGY ANALYZERS



KLEA 616RE

Stock Keeping Unit (SKU): 606714

3Ø Energy Analyzer

Commercial Information

Product Sales Code	606714
Package Unit	1 pcs.
Customs Tariff Number	902830900000

Technical Information

GENERAL	
LCD Display	TFT
Language Support	Turkish, English
Password Protection	+
Networks	TT, TN, IT
Signal Waveforms	+
Connection Type	3P4W, 3P3W
Battery	+
Real-Time Clock	+
Demand Period	1-60 min. adjustable.
Pack Quantity	1
Min./Max. Data	+
Demand Data	+

Phasor Diagram Display	+
Display Refresh Period	1sn

ENERGY MEASUREMENT

Three-Phase Energy Measurement	+
Number of Tariffs	3
Number of Sub-Tariffs	4
Single Energy Measurement	+
Number of Reactive Measurement Quadrants	4

CURRENT MEASUREMENT INPUT

Measurement Range	5mA-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

VOLTAGE MEASUREMENT INPUT

Overvoltage Category	300 V Cat III
L-N Measurement Range	1-300 Vrms
L-L Measurement Range	2-500 Vrms
Frequency Measurement Range	45-65 Hz
Power Consumption	<0.1 VA

POWER QUALITY MEASUREMENTS

Harmonic Measurement (Current and Voltage)	51 e kadar
THDi	+
THDv	+

MEASUREMENT ACCURACY IEC 61557-12

Total Active Power	Class 0,2
Total Reactive Power	Class 1
Total Reactive Energy	Class 1

Frequency	Class 0.05
Current	Class 0.2
Neutral Current	Class 0.5
Voltage	Class 0.2
Power Factor	Class 0.5
THDv / THDi	Class 1
Total Apparent Power	Class 0,2
Total Active Energy	Class 0.2

MEASUREMENT ACCURACY IEC 62053-22

Total Active Energy	Class 0,2 S
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MEASUREMENT ACCURACY IEC 62053-23

Total Reactive Energy	Class 1
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ALARM RELAY OUTPUTS

Number of Outputs	2 NO
Max. Switching Current	10 A
Max. Switching Voltage	250 VAC
Max. Switching Power	1250 VA

POWER SUPPLY

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

MECHANICAL SPECIFICATIONS

Protection Class	IP54
Mounting Method	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
Insulation	2750V RMS

TIME-STAMPED DATA STORAGE	
Hourly Records	1920 Hours x 68 Different Paramaters
Daily Records	240 Days x 68 Different Paramaters
Monthly Records	36 Months x 68 Different Parameters
Alarm Records	255
Periodic Recording Voltage Parameters	Adjustable 0-60 min.
Periodic Recording Stream Parameters	Adjustable 0-60 min.
Periodic Logging Power Parameters	Adjustable 0-60 min.
Периодическая регистрация параметров THD	Adjustable 0-60 min.
Periodic Energy Parameter Logging	Adjustable 0-60 min.

TIME-STAMPED DATA STORAGE	
Event Logs	255

DIGITAL OUTPUT	
Insulation Level	3750 Vrms
Number of Outputs	2
Voltage Switching Range	Transistor
Minimum Switching Frequency	5-30 VDC

DIGITAL INPUT	
Number of Inputs	2
Insulation Level	3750 Vrms
Minimum Counting Frequency	100 Hz, 10 ms

Input Type	Dry Contact
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Ethernet Interface	
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Protocol	Modbus TCP
Port	10/100 Base TX(RJ45)
Performance	14480 pps to 10Mbps -144800 pps to 100Mbps

OTHER MEASUREMENTS	
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Operating Time Counter	+
On-Time Counter	+
Power Failure Counter	+

BASIC ELECTRICAL MEASUREMENTS	
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Current	+
Voltage	+
Frequency	+
Active Power	+
Reactive Power	+
Apparent Power	+
Power Factor	+
cos φ	+
Sag & Swell	+

CABLE CROSS SECTIONS (POWER SUPPLY, VOLTAGE, RELAY)	
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Stranded	2.5mm² - 14AWG
Solid	4mm² - 12AWG, 2x1.5mm² - 2x16AWG

CABLE CROSS-SECTIONS - CURRENT	
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Stranded	4mm² - 12AWG, 2x1.5mm² - 2x16AWG
Solid	4mm² - 12AWG, 2x1.5mm² - 2x16AWG

CABLE CROSS SECTIONS (DIGITAL I/O, RS485, ANALOG OUTPUT)	
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Stranded	1.5mm² - 16AWG
Solid	1.5 mm²-16 AWG, 2x0.75 mm²- 2x18 AWG