

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**

MEASUREMENT ACCURACY IEC 62053-23

Total Reactive Energy	**Class 1**

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**
Event Logs	**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.**

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**

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

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

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

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

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

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

Certificates


CE
UKCA
UL