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KLEA 370P-D

Stock Keeping Unit (SKU): 606131

Energy Analyzer

Commercial Information

Product Sales Code	**606131**
Package Unit	**1 pcs.**
Customs Tariff Number	**903032009011**
Weight Per Unit Including Packaging	**0.428 kg.**

Technical Information

General	
Lcd Screen	**+**
Language Support	**Turkish, English, Russian**
Password Protection	**+**
Voltage Transformer Ratio Vtr	**1 - 5000**
Current Transformer Ratio Ctr	**1 - 5000**
Number Of Measurements In One Period	**512**
Lcdscreen Refresh Rate	**1 sn.**
Networks	**TT, TN, IT**
Signal Waveforms	**+**
Connection Type	**3F4T, 3F3T, Aron**
Battery	**+**
Real Time Clock	**+**
Four Quadrant Measurement	**+**

Demand Period	**1-60 min. adjustable**
Phase Diagram	**+**
Minmaxdemand Values	**+**
Protection Class	**Front IP40 / Rear IP20**
Weight G	**428**
Mounting Type	**Panel Mount**

Energy Measurement

Multiple Sub Tariffs Peak On Peak And Off Peak	**+**
1 Phase Energy Measurement	
3 Phase Energy Measurement	**+**
4 Quadrant Reactive Energy Measurement	**+**
Number Of Tariffs	**2**

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	**25.6 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	**25.6 kHz**

Power Quality Measurements

Thd Voltage As	**+**
Thd Current As	**+**

Harmonics For Current And Voltage Phases	**Up to 51st**

Measuring Accuracy Iec 61557 12

Total Active Power	**Class 0.2**
Total Reactive Power	**Class 1**
Total Reactive Energy	**Class 2**
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 0.5**

Measuring Accuracy Iec 62053 22

Total Active Energy	**Class 0.2S**

Measuring Accuracy Iec 62053 23

Total Reactive Energy	**Class 2**

Alarm Relay Outputs

Number Of Outputs	**7**
Type	**NO (SPST)**
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**

Environmental Conditions

Operating Temperature	**-20 to +70°C**
Storage Temperature	**-30°C +80°C**
Relative Humidity Non Condensing	**Maks. 95%**

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, EN61000-4-11**

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	**2400-115200 bps adjustable**
Parity	**None**
Stop Bit	**1**
Slave Id	**1-247**
Isolation	**2750V RMS**

Time Recorded 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**
Demand	**4 Months x 16 Different Parameters**
Alarm Records	**50**

Digital Output

Isolation Level	**5000 Vrms**
Number Of Outputs	**7**
Type	**Transistör**
Voltage Switching Range	**5-30 VDC**
Minimum Switching Frequency	**20 Hz, 50 ms**

Digital Input

Number Of Inputs	**2**
Isolation Level	**5000 Vrms**
Minimum Counting Frequency	**100 Hz, 10 ms**
Input Type	**Dry Contact**

Analog Output

Number Of Outputs	**--**
Output Ranges 0 5 V 0 10 V 5 5 V 10 10V 0 20 Ma 4 20 Ma	**--**
Isolation	**--**

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