

KLEA 320P

Klemsan

606100

Energy Analyzer

Category: Energy Management Products

Type: Energy Analyzers

Group: Electronics Products



Commercial Information

Package Unit	1 pcs.
Customs Tariff Number	903032009011
Weight Per Unit Including Packaging	0,404

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
LCD/Screen Refresh Rate	1
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	+
Min./Max./Demand Values	+
Protection Class	Front IP40 / Rear IP20
Weight (g)	404
Packaging Quantity	-
Mounting Type	Panel Mount
Seven Segment Display	-
ENERGY MEASUREMENT	
Multiple Sub Tariffs (Peak, On-Peak and Off-Peak)	+
1Ø Phase Energy Measurement	
3Ø Phase 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 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 0.5
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	2
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°C +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 55011/A1:2010, 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	
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	-
Digital I - O and Alarm Output Connections	-
Mains 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	2
Type	Transistör
Voltage Switching Range	5-30 VDC
Minimum Switching Frequency	20 Hz, 50 ms
DIGITAL INPUT	
Minimum Counting Frequency	100 Hz, 10 ms
Input Type	Dry Contact
Number of Inputs	2
Isolation Level	5000 Vrms
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	2.5mm ² - 14AWG
Unloaded	4mm ² - 12AWG, 2x1.5mm ² - 2x16AWG
CABLE CROSS-SECTIONS DIGITAL I/O, RS485, ANALOG OUTPUTS	
Loaded	1.5mm ² - 16AWG
Unloaded	1.5mm ² - 16AWG, 2x0.75mm ² - 2x18AWG
OTHER MEASUREMENTS	
Operating Hours (Operating Time Under Load)	
Open Time (Open Time Without Load)	
Interruption Counter (Number of Power Interruptions)	