Klemsan

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24.08.2026



ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > ENERGY ANALYZERS

ECRAS 300

Stock Keeping Unit (SKU): 606500

3Ø Electronic Multimeter

Commercial Information

Product Sales Code	**606500**
Package Unit	**1 pcs.**
Customs Tariff Number	**903032009011**

Technical Information

GENERAL	
LCD Display	**-**
Language Support	**English**
Password Protection	**+**
Networks	**TT, TN, IT**
Signal Waveforms	**-**
Connection Type	**3P4W, 3P3W**
Battery	**-**
Real-Time Clock	**-**
Demand Period	**-**
Pack Quantity	**1**
Seven-Segment Display	
Without Display	

Min./Max. Data	**+**
Demand Data	**+**
Ghost Display	**+**
Phasor Diagram Display	
Display Refresh Period	**1sn**
Samples per Period	

ENERGY MEASUREMENT

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

CURRENT MEASUREMENT INPUT

Measurement 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**
L-N Measurement Range	**10-300 Vrms**
L-L Measurement Range	**17-500 Vrms**
Frequency Measurement 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	-

MEASUREMENT ACCURACY IEC 61557-12

Total Active Power	-
Total Reactive Power	-
Total Reactive Energy	-
Frequency	**Class 0.2**
Current	**Class 0.5**
Neutral Current	**Class 0.5**
Voltage	**Class 0.5**
Power Factor	-
THDv / THDi	-
Total Apparent Power	-
Total Active Energy	-

MEASUREMENT ACCURACY IEC 62053-22

Total Active Energy	-

MEASUREMENT ACCURACY IEC 62053-23

Total Reactive Energy	-

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 SPECIFICATIONS

Weight (g)	

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	**-**
Baud Rate	**-**
Parity	**-**
Stop Bit	**-**
Slave ID	**-**
Insulation	**-**

TIME-STAMPED DATA STORAGE

Hourly Records	
Daily Records	
Monthly Records	
Demand	
Alarm Records	

DIGITAL OUTPUT

Insulation Level	
Number of Outputs	
Voltage Switching Range	
Minimum Switching Frequency	

DIGITAL INPUT

Number of Inputs	
Insulation Level	
Minimum Counting Frequency	

Input Type	

Ethernet Interface	
Protocol	
Port	
Gateway Function	
Performance	

ANALOG OUTPUT	
Output Ranges (0-5V, 0-10V, ±5V, ±10V, 0-20mA, 4-20mA)	
Insulation	

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	

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

CABLE CROSS-SECTIONS - CURRENT	
Stranded	**2.5mm² - 14AWG**

Solid	**4mm² - 12AWG, 2x1.5mm² - 2x16AWG**

CABLE CROSS SECTIONS (DIGITAL I/O, RS485, ANALOG OUTPUT)

Stranded	**2.5mm² - 14AWG**
Solid	**4mm² - 12AWG, 2x1.5mm² - 2x16AWG**