



ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > ENERGY ANALYZERS

ECRAS 301

Stock Keeping Unit (SKU): 606501

3Ø Electronic Multimeter

Commercial Information

| | |
|-----------------------|---------------------|
| Product Sales Code | 606501 |
| Package Unit | 1 pcs. |
| Customs Tariff Number | 903032009011 |

Technical Information

| General | |
|-----------------------|-------------------|
| Lcd Screen | - |
| Language Support | English |
| Password Protection | + |
| Networks | TT, TN, IT |
| Signal Waveforms | - |
| Connection Type | 3P4W, 3P3W |
| Battery | - |
| Real Time Clock | - |
| Demand Period | - |
| Packaging Quantity | 1 |
| Seven Segment Display | |
| Without Screen | |

| | |
|---------------------------------|------------|
| Minmax Data | + |
| Demand Data | |
| Ghost Screen | + |
| Phasor Diagram Display | |
| Screen Refresh Period | 1sn |
| Number Of Samples In The Period | |

Energy Measurement

| | |
|--------------------------------------|----------|
| 3 Phase Energy Measurement | + |
| Number Of Tariffs | |
| Number Of Sub Tariffs | |
| 1 Energy Measurement | + |
| Number Of Reactive Measurement Zones | 4 |

Current Measurement Input

| | |
|-------------------------------------|------------------------|
| Measuring 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 |
| Measuring Range L N | 10-300 Vrms |
| Measuring Range L L | 17-500 Vrms |
| Frequency Measuring 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 | - |
|------|---|

Measuring 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 | - |

Measuring Accuracy Iec 62053 22

| | |
|---------------------|---|
| Total Active Energy | - |
|---------------------|---|

Measuring Accuracy Iec 62053 23

| | |
|-----------------------|---|
| Total Reactive Energy | - |
|-----------------------|---|

Alarm Relay Outputs

| | |
|-----------------------|----------------|
| Number Of Outputs | 2 pcs. |
| 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 Properties

| | |
|----------|--|
| Weight G | |
|----------|--|

| | |
|------------------|--------------------|
| Protection Class | IP54 |
| Mounting Type | 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 | - |
| Isolation | - |

Time Recorded Data Storage

| | |
|-----------------|--|
| Hourly Records | |
| Daily Records | |
| Monthly Records | |
| Demand | |
| Alarm Records | |

Digital Output

| | |
|-----------------------------|--|
| Isolation Level | |
| Number Of Outputs | |
| Voltage Switching Range | |
| Minimum Switching Frequency | |

Digital Input

| | |
|----------------------------|--|
| Number Of Inputs | |
| Isolation Level | |
| Minimum Counting Frequency | |

| |
|------------|
| Input Type |
|------------|

Ethernet Interface

| |
|-----------------|
| Protocol |
| Port |
| Gateway Feature |
| Performance |

Analog Output

| |
|--|
| Output Ranges 0.5 V, 0.10 V, 5.5 V, 10.10V, 0.20 Ma, 4.20 Ma |
| Isolation |

Other Measurements

| |
|------------------------|
| Operating Time Counter |
| Open Time Counter |
| Power Failure Counter |

Basic Electrical Measurements

| | |
|----------------|---|
| Current | + |
| Voltage | + |
| Frequency | + |
| Active Power | |
| Reactive Power | |
| Apparent Power | |
| Power Factor | |
| Cos | |

Cable Cross Sections Power Supply Voltage Relay

| | |
|-------------|---|
| multi-core | 2.5mm² - 14AWG |
| Single Core | 4mm² - 12AWG, 2x1.5mm² - 2x16AWG |

Cable Cross Sections Current

| | |
|------------|---|
| multi-core | 4mm² - 12AWG, 2x1.5mm² - 2x16AWG |
|------------|---|

| | |
|---|---|
| Single Core | 4mm² - 12AWG, 2x1.5mm² - 2x16AWG |
| Cable Cross Sections Digital Inputoutput Rs485 Analog Output | |
| multi-core | 1.5mm² - 16AWG |
| Single Core | 4mm² - 12AWG, 2x1.5mm² - 2x16AWG |