

ENERGY METER EM9004

FEATURES

- True RMS measurement
- 3 or 2 Element measurement
- Confirms IS14697 for Accuracy Class 1
- Programmable PT/CT Primary
- Direct reading without multiplication factor
- Low PT, CT burden. (Less than 0.2 VA)
- Energy storage in EERAM
- Auto scaling from Kilo to Mega
- Reverse indication for proper connection
- Measures 4 quadrant power and records import energy
- Quick & easy to install
- Displays kW & kWh and Run hour
- kWh range 9999999.9 kWh (LT), 99999999 kWh (HT)
- Run hour range 9999.59 hours
- Digital Calibration by Software



OPTIONAL FEATURES

- Accuracy class 0.5
- Optically isolated RS485 Communication output with MODBUS RTU protocol
- Separate energy register for export energy recording

APPLICATIONS

- Suitable for low cost applications
- Captive Gen Sets
- Individual machines & Equipments
- Pumps, Motors & Compressors
- Lighting Loads

TECHNICAL SPECIFICATION

MEASURED QUANTITIES

Parameter Shown : 1) Total kW
2) R, Y, B kW
3) kWh
4) Run Hour

RATINGS

Voltage Range : 80V to 520V AC line to line for LT
25V to 140V AC line to line for HT
Standard Current : 1A / 5A
Max. Current : 1.5A / 7.5A
Frequency Range : 40.00 to 60.00 Hz
PF Range : 0.00 Lag to 0.00 Lead
Auxiliary Supply : 240V AC (-20% to +10%)
Operating Temperature : 55° C (Max.)

DISPLAY

Type : 2 Row 16 Character LCD with Backlit
Character Size : 4.35 (H) x 2.95 (W) mm
LCD Power Save Mode : Provided. When no key is pressed for 3 minutes, the LCD Backlit is switched OFF to save power and enhance the life of LCD.
The LCD is switched ON when any key is pressed

MEASUREMENT

Method : 3 Phase 4 wire for LT
3 Phase 3 wire for HT
Accuracy : Class 0.5, 1

COMMUNICATION

Type : RS485
Protocol : MODBUS - RTU
Isolation : Provided
Traffic Status : Indicated through TXD, RXD LED

OUTPUT

Calibration Output: 3200 Imp/kWh

KEY FUNCTIONS

Key Pad : 4 Keys namely Index, Shift, Increment and Enter used for Program mode setting and Run mode selection
Program mode Parameters : PT Primary Voltage, CT Primary Current, Device address, Energy and Run hour Reset
Unauthorized Person Entry Protection : Provided through Password Facility
Program Setting, Energy and Run hour Storage : EERAM

CASE AND DIMENSIONS

Enclosure : ABS Plastic
Dimension : 96(H) x 96(W) x 120(D) mm
Cutout : 88(H) x 88(W) mm
Mounting : Flush / Panel

APPROVALS

Type test Approved as per IS14697 Standards for Class 1, Class 0.5
Confirms EMI, EMC Regulations as per IS14697 standards

PLEASE PROVIDE THE FOLLOWING DETAILS WHILE PLACING YOUR ORDER / ENQUIRY

1. Voltage Input 2. Current Input 3. HT / LT Application 4. CT Primary 5. PT Primary 6. Self Powered / External Supply.

OUR RANGE OF PRODUCTS

Volt Meter, Ammeter, VAF Meter, Energy Meter, Dual Source Meter, Load Manager, Power Multimeter, Trivector Meter, Maximum Demand Controller, Harmonic Indicator, Power Factor Controller, Smart PF Controller, Power Factor Correction Panel, AC Voltage Controller, AC Current Controller, Motor Protection System, Voltage/Current/Power/Frequency Transducer, Power Transmitter, Energy Management and Billing Systems etc...



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