

# ENERGY METER EM9005

## FEATURES

- True RMS measurement
- 3 or 2 Element measurement
- Confirms IS14697 for Accuracy Class 1
- PT / CT setting through Dip switch
- 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
- kWh range 9999999.9 kWh (LT), 99999999 kWh (HT)
- kW / kWh selection through front panel key
- Optically isolated solid state NO contact pulse output for kWh
- Remote Data Logging possible using PLC/DCS



## OPTIONAL FEATURES

- Accuracy class 0.5
- 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

## 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 : 1 Row 16 Character LCD with Backlit  
Character Size : 4.35 (H) x 2.95 (W) mm  
Pulse Output : Optically Isolated solid state NO contact pulse output is provided for kWh to interface with PLC/DCS

## MEASUREMENT

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

## MEASUREMENT

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

## OUTPUT

Pulse Output : Optically Isolated solid state NO contact pulse output is provided for kWh to interface with PLC/DCS  
Calibration LED Output : 3200 imp/ kWh

## 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...



## INDUSTRIAL CONTROLS & DRIVES (INDIA) PVT. LTD.

No. 33, Mettukuppam Road, (Via Alappakkam Road), Maduravoyal, Chennai - 600 095  
Phone: 044 - 4293 4324 / 4293 4325 / 4293 4333 Fax: 044 - 4293 4355.  
E-mail: gcidipl@vsnl.com, sales@icdipl.net

Website: [www.icdipl.net](http://www.icdipl.net)

Note: Specifications are subject to change without prior notice due to continuous improvement in product development.