



# Single Phase Multifunction Meter



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EM08



EM08D

**Features**

- 10 Parameters in One Meter
- Measures V, A, PF, Hz, KW, KVA, KVAr, KWh, KVAh & KVArh
- Auto Scroll / Manual Scroll Display (User Selectable)
- Reduces Panel Space and Wiring Time
- State of The Art Microcontroller Design
- User Programmable CT Ratio (1.00 - 99.99)
- Ideal for Testing of Electrical Appliances
- TRMS Reading
- LCD Display with Backlight (20mm Digit Height)
- RS 485 Port (5kV Isolated) (Optional), please inquire sales@mecoinst.com
- MODBUS RTU Protocol (Optional), please inquire sales@mecoinst.com

**Application**

- Appliance Testing
- Energy Audit
- QC
- Studying Energy Efficiency of Electrical Equipment
- Building Management Systems
- Power Management
- Generator / Motor Characteristics
- Plant Maintenance

**Specification**

Functions	Input Range			Accuracy
RMS Voltage	50.0 ~ 300 Vrms			± 0.2% of F.S. + 1 dgt.
RMS Current (any one range only)	1A (0.05 ~ 1.2 Arms)	5A (0.25 ~ 6.0 Arms)	10A (0.50 ~ 12 Arms)	± 0.2% of F.S. + 1 dgt.
Active Power	0.005 ~ 0.300 KW	0.015 ~ 1.5 KW	0.050 ~ 3.000 KW	± 0.5% of F.S. + 1 dgt. (Cosφ = 0.3 to 1.000)
Apparent Power	0.005 ~ 0.300 KVA	0.015 ~ 1.5 KVA	0.050 ~ 3.000 KVA	± 0.5% of F.S. + 1 dgt.
Reactive Power	0.005 ~ 0.300 KVAr	0.015 ~ 1.5 KVAr	0.050 ~ 3.000 KVAr	± 1.0% of F.S. + 1 dgt. (Sinφ = 0.3 to 1.000)
Power Factor	0.3 Lag ~ 1.0 ~ 0.3 Lead			± 0.01 PF + 1 dgt.
Line Frequency	45.00 ~ 65.00 Hz			± 0.1 Hz
Active Energy (KWh)	0000 ~ 9999 KWh			Class 1
Apparent Energy (KVAh)	0000 ~ 9999 KVAh			
Reactive Energy (KVArh)	0000 ~ 9999 KVArh			

Model	EM08	EM08D
Case / Housing Material	DIN Black ABS, Dimension as per DIN 43700	Portable Type, Desk Top Case with Tilt Stand
Mounting Clamps	Sturdy, Moulded Derlin with suitable Hardware	Desk Top Type
Terminals / Connectors	Terminal Block : Thermoplastic (UL94V-0) with Tin Plated Brass Terminal	For Input connections 10Amps Binding Post Terminals on the Front panel.
Auxiliary Power Supply	230VAC ±20%, 50Hz	230VAC ±20% 50Hz, Switch & Fuse for Aux. Supply at the Back, Supplied with 1-Phase Power Cord
Dimension (mm)	Front: 96 x 96 Depth ( Behind Bezel Panel ) : 90 Cut-Out: 92 (+0.8, -0.0) x 92 (+0.8, -0.0)	160 (W) x 110 (H) x 190 (D)

**Ordering Information** : Model, Input Voltage, Input Current (1A or 5A or 10A - any one only), CTR & Auxillary Supply

