



----- WATTHOUR WIZARDS

Electronic Energy Meter

EM series Direct type.

- ➡ Direct Type With Inbuilt CT Up to 50 Amp.
- ➡ Individual phase & current reversal indication.
- ➡ Optically isolated Open Collector Pulse Output
- ➡ Optional RS 485 Port With Modbus -RTU Protocol

Digital Energy Meter

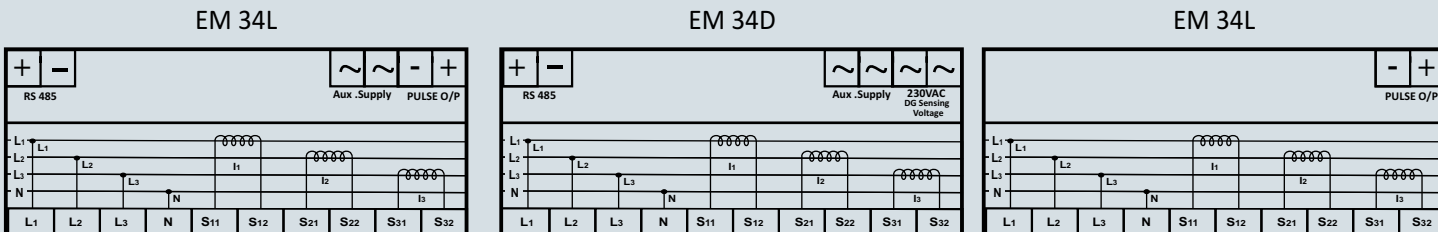
EM series Direct type.

- ➔ Accuracy Class 1% as per IEC 61036 / IS 13779 (0.5 optional).
- ➔ Accurate reading for balanced as well as unbalanced load.
- ➔ Accurate reading even under rapid current fluctuation.
- ➔ True RMS measurement.
- ➔ Finger proof terminal cover (optional).

Electrical Characteristics

Parameters		
Type	Name	Statistics
Operating Characteristics	Auxiliary Supply	Self Powered / 230V AC ($\pm 20\%$)
	Voltage Input	110 to 550 V AC
	Current Rating	Maximum 50 Amp. direct
	Starting Current	0.2% of rated current.
	Operating frequency	45 Hz to 65 Hz.
	Operating P.F.	0.5 lag - Unity - 0.8 Lead.
	PT Ratio	PT ratio site Programable (PT PR.0000 TO 9999, PT SC.0000 TO 9999)
Casing	Terminal Board	Glass Filled Plastic, With Self Lifting Screws
	Case	Glass Filled Plastic, as per DIN 43700
	Clamps	Glass Filled plastic, easily mountable
Mechanical characteristics	Weight	500g (approximately)
	IP Degree of Protection	Front : IP 52; Back : IP 20
	Dimensions	Front : 96x96 mm (bezel size); Depth : 54mm. Panel cut-out : 92x92 mm
Applications	Temp	-10°C to 55°C
	Storage	-10°C to 70°C
	Humidity	up to 95% RH

Connection Diagram



NOTE : Inbuilt CT on back of meter is indicates in above diagram. (I1, I2, I3)