

Class 1.0s accuracy as per IS13779

Microcontroller Based

Seven Segment LED Based Display

Measures all important Electrical Parameters

Compact 96 X 96 DIN enclosure

RS485 port for connection to SCADA/EMS

The EM9400 from Trinity is an easy-to-use, cost effective electrical power meter that offers all the basic measurement capabilities required to monitor an electrical installation. In addition to measuring the instantaneous parameters, it also measures all three energies, thus helping to measure energy costs.

Over the basic metering, it provides RS485 port supporting MODBUS RTU protocol, THD measurements, Phase angle, Unbalance % for Voltage and Current, On Hour & Run Hour, Power Interruption recording. These parameters are available over RS485 only.

The CT Primary, Secondary and PT ratios are site selectable.

Technical Specifications

			Parameters		
î	Гуре	Name	Statistics		
		Supply	Three Phases and Neutral of a 3P4W system		
INPUT		Voltage	Direct Voltage Input PT Ratio Burden		25 to 500V L-L, 25 to 300V L-N Site Selectable 0.5VA
		Current	Secondary Current Input CT Ratio Range of Reading Burden Overload	:	5A or 1A (Site Selectable) Site Selectable 5 - 5000A < 1.0VA 5A CT → 6A RMS Continuous 1A CT → 1.2A RMS Continuous
		* Power Supply	Auxiliary Supply (AC) Auxiliary Supply(DC)	:	40 - 480 VAC/DC, 50-60 Hz. 8 - 32 VDC
- 1	True RMS Basic Parameters	Voltage	VL-N - Accuracy	-(4)	0.5% of Reading
		(Volts L-N & L-L)	VL-L - Accuracy		1.0% of Reading
		Current (Amps IR, IY, IB)	Accuracy		0.25% of Reading
		Line Frequency	45 to 65 Hz, Accuracy	1	0.3% of Reading
	Power	Active Power (P)	Accuracy (For IPFI>0.5)	13.000	1% of Reading
VENT		Reactive Power (Q)	Accuracy : 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)		
E I		Apparent Power (S)	Accuracy		1% of Reading
MEASUREMENT		Power Factor	For Individual phases ar Accuracy Range of Reading		ystem 1.0% of Reading (IPFI≥0.5) 0.05 to 1.00 Lag/Lead
	Energy	Total Active Energy (KWh)	Range of Reading Accuracy		0 to 9999999.9 Class 1.0s as per IS13779
		Total Apparent Energy (KVAh)	Range of Reading Accuracy	- 1	0 to 9999999.9 1.0% of Reading
		Total Apparent Energy (KVARh)	Accuracy		0 to 9999999.9 1.5% of Reading
	Power	THD for each phase current			
	8 8	THD for each phase voltage			
0	Dimensions	Bezel	96 X 96 mm		
3		Panel Cutout	92 X 92 mm		
MISCELLANEOUS		Depth of installation Display	55 mm 4x3 7-Segment		
E L		Operating temp	10°C to 50°C		
200		Weight	0.29 Kgs (Approx.)		
2		Min. Operating Current	0.4% to 120% of CT primar	ry:	
	Comm.	RS485	Modbus-RTU protocol		

^{*} Note: To be specified at the time of ordering

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^{*}Specifications are subject to change without notice due to continuous improvement.