EMPOWER-PLUS

DIGITAL MULTIFUNCTION METER



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 EMPOWER-PLUS 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				
-	Туре	Name	Statistics		
		Supply	Three Phases and Neutral of a 3P4W system		
		Voltage	Direct Voltage Input : 25 to 500V L-L, 25 to 300V L-N PT Ratio : Site Selectable Burden : 0.5VA		
INPUT		Current	Secondary Current Input : 5A or 1A (Site Selectable) CT Ratio : Site Selectable Range of Reading : 5 - 5000A Burden : <1.0VA Overload : 5A CT → 6A RMS Continuous 1A CT → 1.2A RMS Continuous		
Power Energy Power True RMS Basic		* Power Supply	Auxiliary Supply (AC) : 60 - 480 VAC/DC, 50-60 Hz. Auxiliary Supply(DC) : 8 - 32 VDC		
	True RMS Basic Parameters	Voltage	VL-N - Accuracy : 0.5% of Reading		
		(Volts L-N & L-L)	VL-L - Accuracy : 1.0% of Reading		
MEASUREMENT		Current (Amps IR, IY, IB)	Accuracy : 0.25% of Reading		
		Line Frequency	45 to 65 Hz, Accuracy : 0.3% of Reading		
	Power	Active Power (P)	Accuracy : 1% of Reading (For IPFI>0.5)		
UREMENT		Reactive Power (Q)	Accuracy : 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)		
		Apparent Power (S)	Accuracy : 1% of Reading		
MEASU		Supply Three Phases and Neutral of a 3P4W system Direct Voltage Input PT Ratio Site Selectable Burden Secondary Current Input Current Current Current Power Supply Voltage Voltage Voltage * Power Supply Voltage Voltage Voltage * Power Supply Voltage Voltage Voltage Voltage Voltage Voltage Voltage VL-N - Accuracy VL-L - Accuracy Current (Amps IR, IY, IB) Line Frequency Accuracy Ac	Accuracy : 1.0% of Reading (IPFI≥0.5)		
		Total Active Energy (KWh)	Accuracy : Class 1.0s as per IS13779		
			Accuracy : 1.0% of Reading		
		LG & LD)	Accuracy : 1.5% of Reading		
	wer				
	9 9				
MISCELLANEOUS	Dimensions	Panel Cutout Depth of installation Display Operating temp Weight	92 X 92 mm 55 mm 4x3 7-Segment 10°C to 50°C 0.29 Kgs (Approx.)		
	Comm.		. ,		

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

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