

XPERT-LITE

ELECTRICAL POWER METER



Multiparameter Monitoring

Measures all important Electrical Parameters

All parameters with default accuracy class 1.0S

Compact 96 X 96 DIN enclosure

RS-485 port for connection to SCADA/EMS with RX/TX dual color led indication

Two Alarm/Trip Outputs programmable for any parameter including Demand

128 X 64 backlit graphical LC display

Dual source measurement (EB & DG) option available

Import-Export Option available

The XPERT-LITE 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 accurately all three energies, and also demand, thus helping to measure and control energy cost. It also provides RS485 port supporting MODBUS RTU protocol, two relay outputs for Alarm/Trip with led and display indication, THD measurements for each Volts and Amps, KWh led output for 1000 impulses/KWh.

Over the basic metering, it optionally provides, dual source metering and Import/Export functionality.

The relays are site programmable for parameter of action, and the value on which to operate.

The CT primary and secondary, PT ratio and installation type are site selectable, thus making it possible to use the meter in all types of three phase installations.

Technical Specifications

		Parameter		
Type	Name	Statistics		
INPUT	Supply	Three Phases and Neutral of a 3P4W system / Three Phases of a 3P3W system		
	Voltage	Direct Voltage Input : Up to 500V L-L, Up to 300V L-N PT Ratio : Site Selectable Burden : 0.5VA		
	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 Supply	Auxiliary Supply: 80 - 270 VAC, 50-60 Hz.		
OUTPUT	Relay	Two. Individually Field Programmable. Switching Voltage : Max. 250 VAC Switching Power : Max. 1000W Expected Mechanical Life: >10 x 10 ⁶ switching operations. Expected Electrical Life : >4 x 10 ⁶ switching operations. @ (Load = 200VA, Cosφ = 0.5)		
MEASUREMENT	True RMS Basic Parameters	Voltage (Volts L-N & L-L)	VL-N - Accuracy : 0.5% of Reading VL-L - Accuracy : 1.0% of Reading	
		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)	
		Reactive Power (Q)	Accuracy: 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)	
		Apparent Power (S)	Accuracy: 1% of Reading	
		Power Factor	For Individual phases and System Accuracy: 1.0% of Reading (IPFI≥0.5) Range of Reading: 0.05 to 1.00 Lag/Lead	
	Energy	Total Active Energy (KWh)	Range of Reading: 0 to 9999999.9 Accuracy: 1.0S as per IS13779	
		Total Apparent Energy (KVAh)	Range of Reading: 0 to 9999999.9 Accuracy: 1.0% of Reading	
		Total Reactive Energy (KVARh)	Range of Reading: 0 to 9999999.9 Accuracy: 1.5% of Reading	
	Power Quality	THD for each Voltage		
		THD for each Current		
	Demand	KVA/ KWA Demand	Site Selectable. Demand Interval 15/30 Min. Also site selectable	
		Max. Demand	Max. Value reached only. No time & date stamp	
MISCELLANEOUS	Dimensions	Bezel	96 X 96 mm	
		Panel Cutout	92 X 92 mm	
		Depth of installation	55 mm	
	Display	128 X 64 graphical backlit LCD		
	Operating temp	10°C to 50°C		
	Weight	0.35 Kgs (Approx.)		
	Operating Current Range	0.4% to 120% of CT primary		
	Calibration LED	Red Colour. 1000 impulses/KWh		
	Comm.	RS485	Modbus -RTU protocol	

TRINITY ENERGY SYSTEMS PVT. LTD.

386, Savli G.I.D.C Estate, Manjusar-391775, Dist.-Vadodara, Gujarat, India
Tele: +91-9228004452/53/54 • E-mail: info@trinityenergy.co.in

web : www.trinityenergy.co.in

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