

INFINITY, ENTITY & E³

DIGITAL ENERGY METERS

The Economic Analog Replacement



Class 1.0S accuracy as per IS13779

Class 0.5 accuracy also available

Compact 96 x 96 x 80 mm enclosure

Microcontroller based

Backlit 16 x 1 LC Display in Infinity & Entity

Bright red Seven segment 8-digit display in E3

Dual source measurement (EB & DG) optional available (Infinity)

Whole current models for 32A and 50A available (Infinity)

RS-485 Communication port with MODBUS-RTU protocol (Infinity)

Infinity, Entity & E³ from Trinity are digital energy meters for use in three phase electrical systems for sub-metering applications.

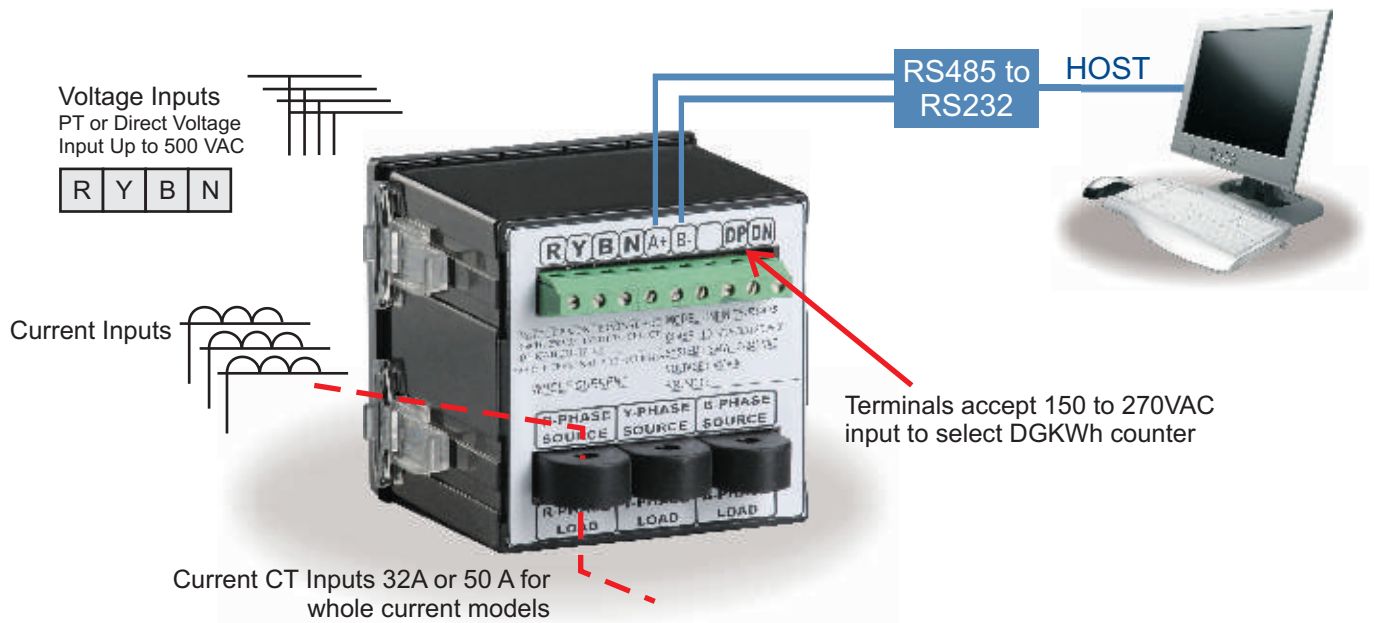
The design of these meters is based on proven microcontroller technology; with front end ASICs resulting in compact and accurate energy metering. The accuracy of the meters is maintained even under severely distorted waveform conditions which occur due to harmonics in the system.

Entity is the basic model, with a 16 x 1 LC Display. **E³** is a variant of the same having red seven segment display.

Infinity is the advanced model with bright 16 x 1 LC display having additional optional features like RS485 port, dual source measurement and whole current measurement up to 50A.

Technical Specifications

		Parameter	
Type	Name	Statistics	
INPUT	Supply	Three Phases and Neutral of a 3P4W system/ Three Phases of 3P3W system	
	Voltage	Direct Voltage Input Burden	: Up to 300 V L-N or 500 L-L : 0.5 VA
	Current	Secondary Current Input CT Primary Range of Reading Burden Overload (Through CT) (Whole Current)	: 5A or 1A (To be specified at the time of Ordering) : Site Selectable : 0 – 5000 A : < 1.0VA : 5A CT = 6A RMS Continuous : 1A CT = 1.2A RMS Continuous : 120% of I _{max} continuous
	Power Supply	Self Powered from mains (Entity & E3) Wide operating Voltage SMPS : 80VAC – 480 VAC, 50-60 Hz. (Infinity)	
COMM.	RS485	Supporting MODBUS-RTU protocol, (Infinity)	
MEASUREMENT	Total Active Energy (KWh)	Range of Reading: 0 to 99999999.9 KWh Accuracy : 1.0 S as per IS13779	
MISCELLANEOUS	Dimen.	Bezel	96 X 96 mm
		Panel Cutout	92 X 92 mm
		Depth of installation	80 mm
		Operating temp	10° C to 50° C
		Weight	0.340 Kgs (Infinity), 0.264 Kgs (Entity)
		Min. Operating Current	0.4% of CT primary
		Dual Source Sensing	By presence or absence of 230VAC across two terminals can be looped



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