

# ENTITY

## DIGITAL ENERGY METERS



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Class 1.0S accuracy as per IS13779

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Class 0.5 accuracy also available

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Compact 96 x 96 x 55 mm enclosure

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Micro-controller based

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Backlit 16 x 1 LC Display

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Whole current models for 32A and 60A available

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RS-485 Communication port with MODBUS-RTU protocol

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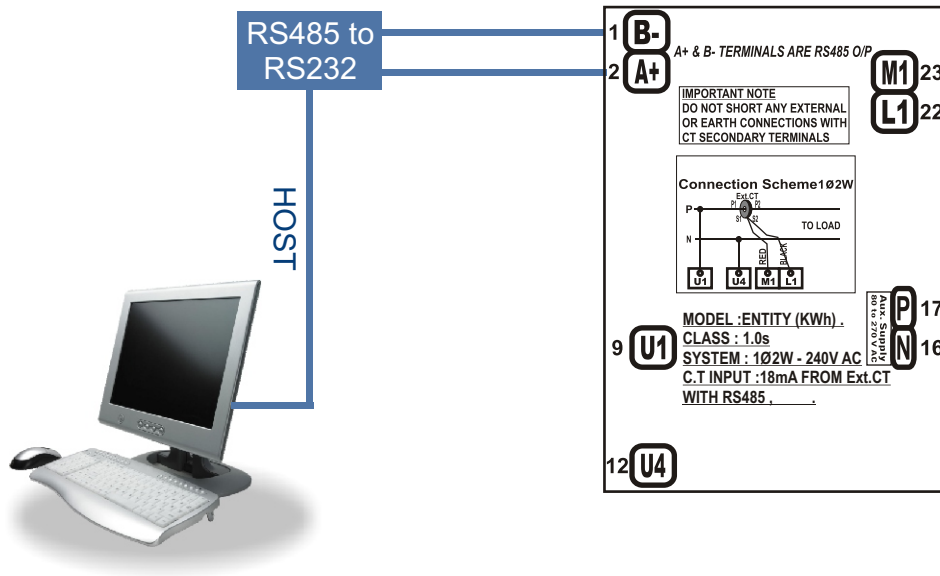
**Entity** from Trinity are micro-controller based digital energy meters for use in Single Phase / three phase electrical systems for sub-metering applications.

The design of these meters is based on proven micro-controller 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. having additional optional features like RS485 port, dual source measurement and whole current measurement up to 60A.

# Technical Specifications

Parameter			
Type	Name	Statistics	
INPUT	Supply	One Phases and Neutral of a 1P2W system	
	Voltage	Direct Voltage Input : Up to 300 V L-N Burden : 0.5 VA	
	Current	Current Input : (Whole Current) Up to 60 A (To be specified at the time of Ordering) Burden : < 1.0VA (Whole Current) : 120% of I <sub>max</sub> continuous	
	Auxiliary Power Supply	Operating Voltage for SMPS : 80 VAC – 480 VAC, 50-60 Hz.	
COMM.	RS485 Port	Supporting MODBUS-RTU protocol	
MEASUREMENT	Total Active Energy (KWh)	Range of Reading: 0 to 9999999.9 KWh Accuracy : 1.0 S as per IS13779	
MISCELLANEOUS	Dimen.	Bezel	96 X 96 mm
		Panel Cutout	92 X 92 mm
		Depth of installation	55 mm
		Operating temp	10° C to 60° C
		Weight	0.3 Kgs (Entity)
		Min. Operating Current	0.4% of CT primary



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**TRINITY**  
Making Energy Matter