

DIGITAL ENERGY METERS

| ENTITY



Entity, from Trinity are micro-controller based digital energy meters for use in 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.

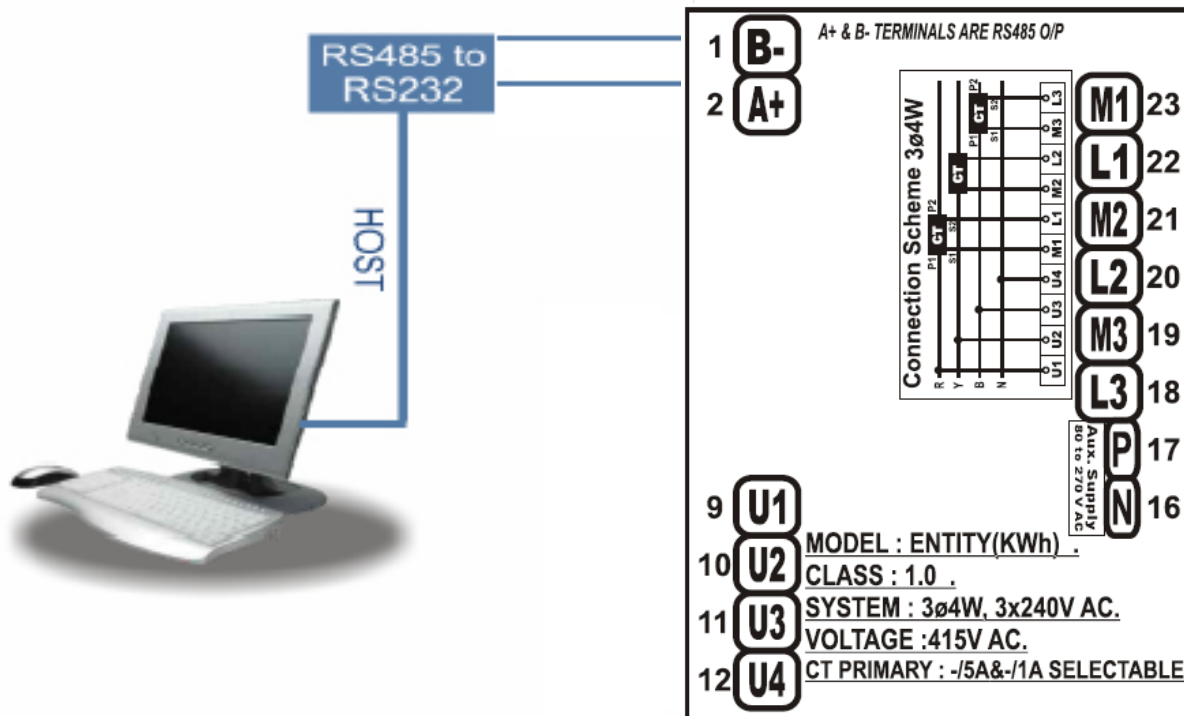
Entity is the advanced model with bright 16 x 1 LC display having additional optional features like RS485 port, dual source measurement and whole current measurement up to 60A.

FEATURES

- Class 1.0s accuracy as per IS13779
- Class 0.5 accuracy also available
- Micro-controller based
- Backlit 16x1 LC Display with dual source
- Backlit 16x1 LC Display in Entity

TECHNICAL DATA

Parameter			
TYPE	NAME	STATISTICS	
INPUT	Supply	Three Phases and Neutral of a 3P4W system/ Three Phases of 3P3W system	
	Voltage	Direct Voltage Input : Up to 300 V L-N or 500 V L-L Burden : 0.5 VA	
	Current	Secondary Current Input : 5A or 1A (Site Selectable) CT Primary : Site Selectable Burden : < 1.0VA Overload (Through CT) : 5A CT = 6A RMS continuous 1A CT = 1.2A RMS continuous (Whole Current) 120% of I _{max} 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	0° C to 60° C	
	Weight	0.3 Kgs (Infinity), 0.264 Kgs (Entity)	
	Min. Operating Current	0.4% of CT primary	
	Dual Source Sensing	By presence or absence of across two terminals can be looped	



TRINITY

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