

QUARK, INFINITY, ENTITY, μ 100

DIGITAL ENERGY METERS



Class 1.0S accuracy as per IS13779

Class 0.5 accuracy also available

Micro-controller based

Backlit 16 x 2 LC Display with dual source, 16x1 LC display without dual source in Infinity

Backlit 16 x 1 LC Display in Entity

Stepper Motor Counter Display with 6-digits in Quark

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)

Quark, Infinity, Entity & μ 100 from Trinity are micro-controller based digital energy meters for use in three phase electrical systems for sub-metering applications.

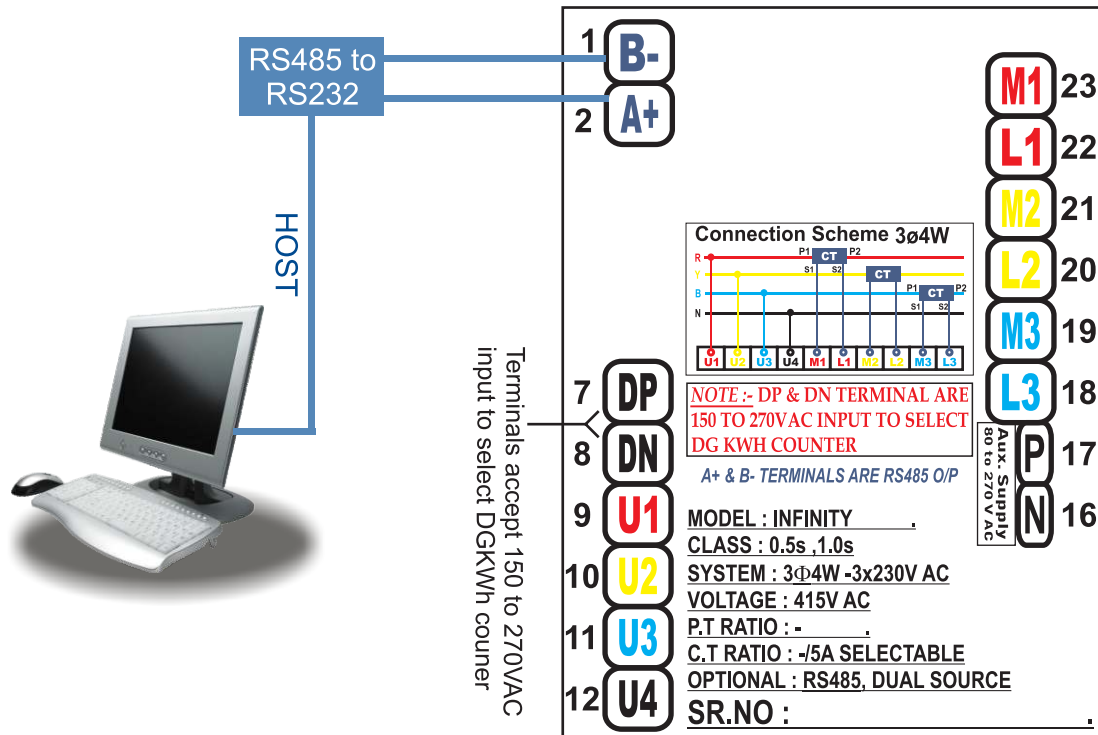
The design of these meters is based on proven micro-controller technology; with front end ASICs resulting in compact and accurate energy metering. The accuracy of the meters is maintained even under severely distorted waveform conditions which occur due to harmonics in the system.

Entity is the basic model, with a 16 x 1 LC Display. **Quark** is a digital energy meter with a mechanical stepper motor counter. **μ 100** is also a basic model with backlit LC display in 48 X 96 X 55 mm enclosure.

Infinity is the advanced model with bright 16 x 2 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 : Up to 300 V L-N or 500 V L-L Burden : 0.5 VA	
	Current	Secondary Current Input : 5A or 1A (To be specified at the time of Ordering) CT Primary : Site Selectable (not in QUARK) 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, (Infinity)	
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, 48 X 96 (for μ100)
		Panel Cutout	92 X 92 mm, 44 X 92 (for μ100)
		Depth of installation	55 mm
		Operating temp	0° C to 60° C
		Weight	0.3 Kg (Infinity), 0.264 Kg (Entity), 0.27 Kg (Quark), 0.190 Kg (μ100).
		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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