



Technical Data Sheet

Beta Hz



Beta Hz is specially designed to measure important electrical parameters like Frequency and RPM.

Application

- Distribution Panels
- Electrical load monitoring
- Genset, Test Benches and Laboratories
- Motor Control Panels

Product Features

True RMS measurement	Measures distorted waveform up to 15th Harmonic.
Onsite programmable	Onsite Programmable Number of poles
RPM Measurement	The instrument display Rotation per minutes for generator applications. Number of poles can be set on site depending upon application requirement.
4 digits Ultra Bright LED display	Display range upto 9999
Enclosure Protection for dust and water	Conforms to IP 50 (front face) as per IEC60529
Compliance to International Safety standards	Compliance to International Safety standard IEC 61010-1- 2010



Technical Specifications

Input

Nominal Input Voltage (AC RMS) 50 V_{L-N} - 500 V_{L-N}

Frequency Measuring range 10Hz - 500Hz

Auxiliary Supply

External Aux 40 V - 300V AC-DC
or
20 V - 40V AC / 20 V - 60V DC

Aux supply frequency 45 to 65 Hz range

VA Burden

Nominal input voltage burden < 0.2 VA approx

Auxiliary Supply burden < 3 VA approx

Operating Measuring Ranges

Voltage 50 V_{L-N} - 500 V_{L-N}

Frequency 10 - 500 Hz

Technical Specifications

Reference Condition for Accuracy	
Reference Temperature	23°C ± 2°C
Auxiliary Supply Voltage	Nominal Value ±1%
Auxiliary Supply-Frequency	Nominal Value ±1%
Accuracy	
Frequency	±0.5 Hz ± 1 Digit
Display update rate	
Response time to step input	1 sec approx
Applicable Standards	
EMC Immunity	IEC 61326 IEC 61000-4-3, 10V/m min - Level 3 industrial Low level
Safety	IEC 61010-1-2010 , Permanently connected use
IP for water & dust	IEC60529
Pollution degree	2
Installation category	III
High Voltage Test	3.3 kV AC,50Hz for 1 minute between all Electrical circuits.
Environmental	
Operating temperature	-10 to +55°C
Storage temperature	-20 to +65°C
Relative humidity	0... 90% non condensing
Warm up time	Minimum 3 minute
Shock	15g in 3 planes
Vibration	10... 55... 10 Hz, 0.15mm amplitude

Note: Variation due to Influence quantity is 100% of class index

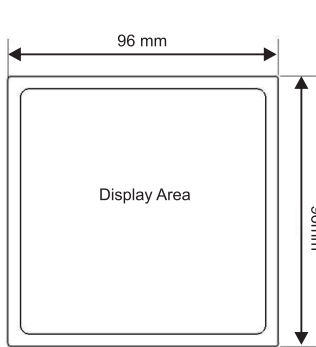
Display Parameter

Sr No	Displayed Parameters
1.	Frequency
2.	RPM

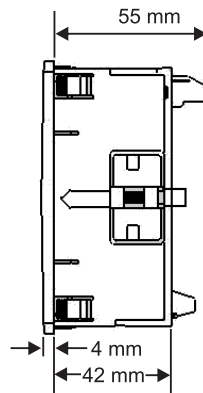


Dimensional Details for 96x96 model

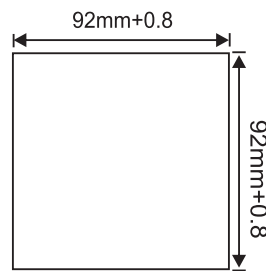
Installation



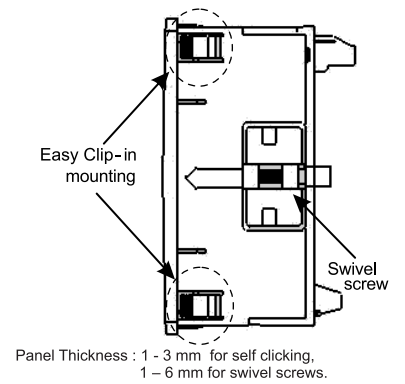
Front View



Side View

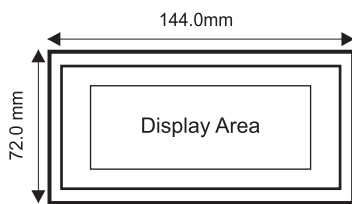


Panel Cutout

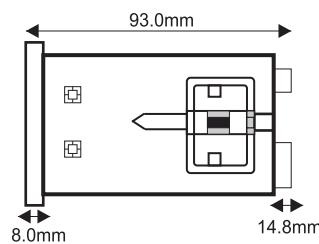


Dimensional Details for 72x144 model

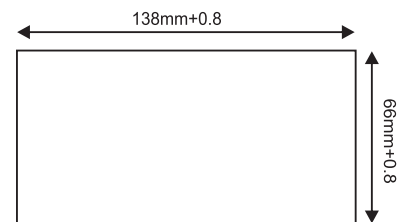
Installation



Front View



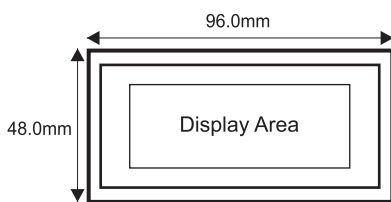
Side View



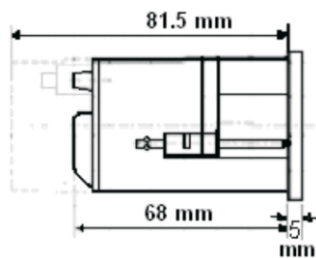
Panel Cutout

Dimensional Details for 48x96 model

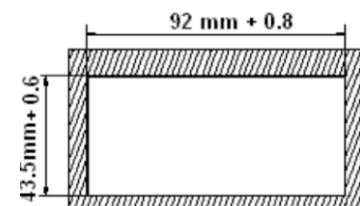
Installation



Front View

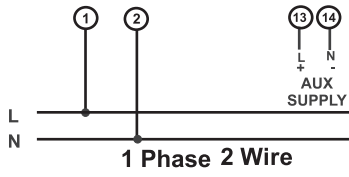


Side View



Installation Cutout

Electrical Connection



Ordering Information