



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

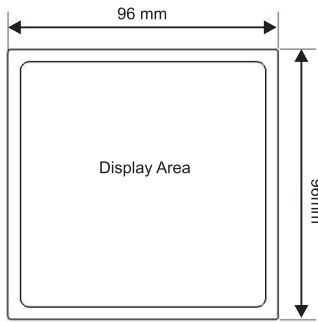
Display Parameter

| Sr No | Displayed Parameters |
|-------|----------------------|
| 1. | Frequency |
| 2. | RPM |

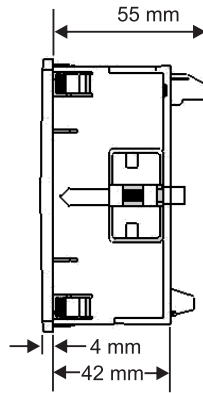


Dimensional Details for 96x96 model

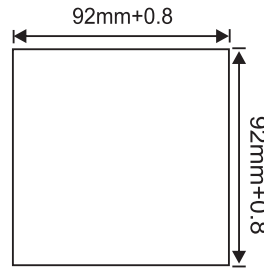
Installation



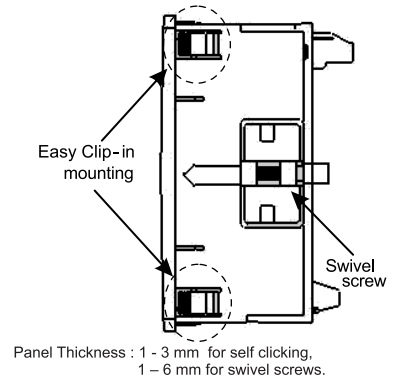
Front View



Side View

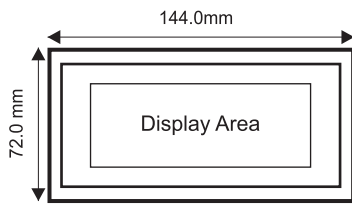


Panel Cutout

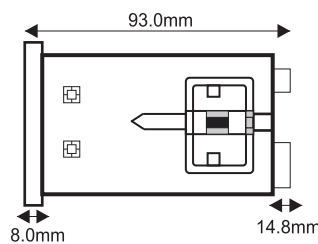


Dimensional Details for 72x144 model

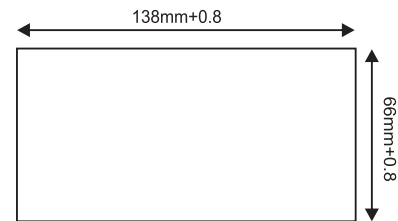
Installation



Front View



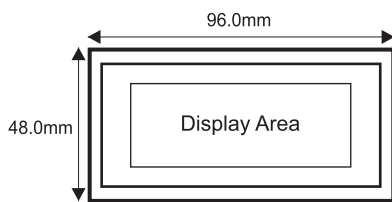
Side View



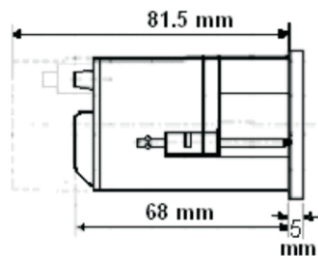
Panel Cutout

Dimensional Details for 48x96 model

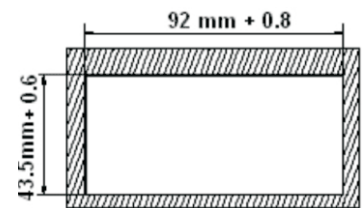
Installation



Front View

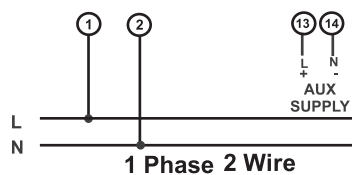


Side View



Installation Cutout

Electrical Connection



Ordering Information

| | | | | | | | | |
|--------------|----------------|----|---|----|---|---|---|--------|
| Product Code | DH10- | 1F | 1 | XX | 1 | 5 | X | 0000ST |
| Aux Voltage | 60-300 V AC/DC | | | EA | | | | |
| | 12-60 V AC/DC | | | LA | | | | |
| DPM Size | 96 X 96 | | | | | | 0 | |
| | 48 X 96 | | | | | | 1 | |
| | 72 X 144 | | | | | | 2 | |



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