

# RISH DPM Hz

Digital Panel Meter

## Technical Datasheet



### Compact Frequency Meter

*RISH DPM Hz* is specially designed to measure important electrical parameters like Frequency and RPM.

► Frequency and RPM Measurement

► Onsite Programmable

► Ultra Bright LED Display



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Measure, Control & Record with a Difference

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# RISH DPM Hz

## Digital Panel Meter



**RISH DPM Hz** measures important electrical parameters like Frequency & RPM.

### Applications:

- 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

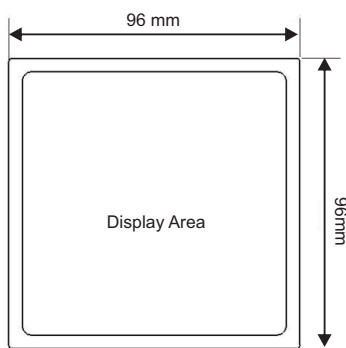
#### Compliance to International Safety standards

- ▶ Compliance to International Safety standard IEC 61010-1- 2010

#### EMC Compatibility

- ▶ Compliance to International standard IEC 61326

### Dimensions Details:



Front View

### Technical Specifications:

#### Input :

Input voltage (AC RMS)	50 VL-N - 500 VL-N
Frequency Measuring range	10Hz - 500Hz

#### Auxiliary Supply:

External Aux	40 V – 300V AC-DC (± 5 % ) 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



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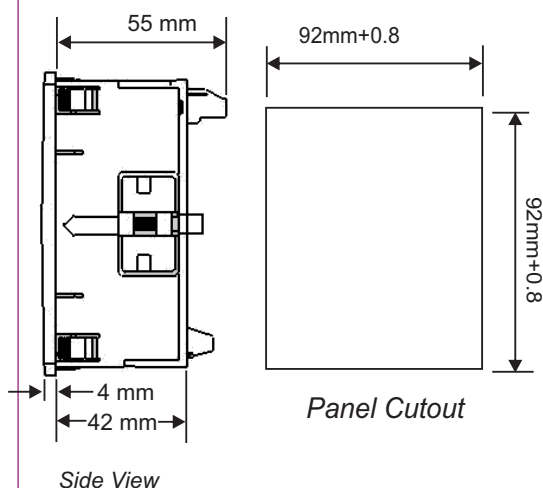
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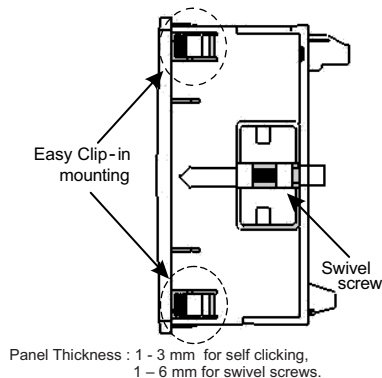
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## Digital Panel Meter

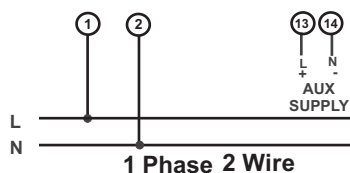
### Dimensions Details:



### Installation:



### Electrical Connection:



### Technical Specifications:

#### Operating Measuring Ranges:

Voltage	50 VL-N - 500 VL-N
Frequency	10 - 500 Hz

#### 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
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#### Display update rate:

Response time to step input	1 sec approx.
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#### Applicable Standards:

EMC	IEC 61326
Immunity	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

### Display Parameter:

Sr No	Displayed Parameters
1.	Frequency
2.	RPM

**Note:-** Set Number of Poles such that RPM Should not cross 9999 else display will show dash on RPM screen.  
 $RPM = (Frequency * 120) / \text{Number of Poles}$



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