



# Data Sheet

## RISH DPM Hz

72X144 / 96X96 / 48X96



Measure



Control



Record



Analyze



Optimize

**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



### Technical Specifications:

#### Input :

Input voltage (AC RMS)	50 V <sub>L-N</sub> - 500 V <sub>L-N</sub>
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



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### 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
Display update rate:	
Response time to step input	1 sec approx.
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
Vibration	10... 55... 10 Hz, 0.15mm amplitude
<b>Note: Variation due to Influence quantity is 100% of class index.</b>	



### 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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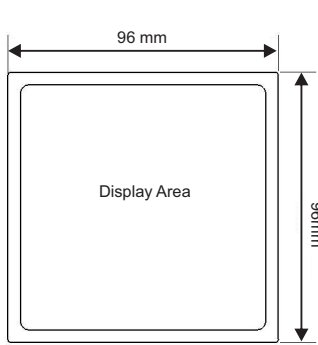
Analyze



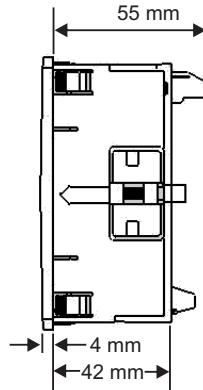
Optimize

### Dimensional Details for 96x96 model

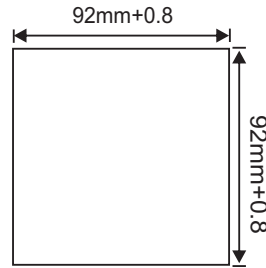
### Installation



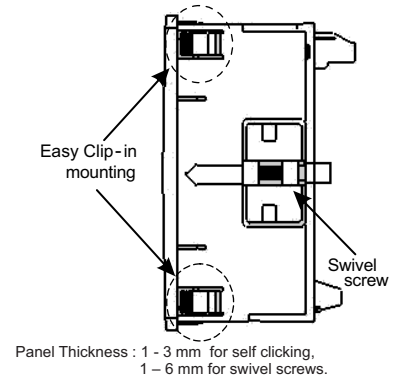
Front View



Side View

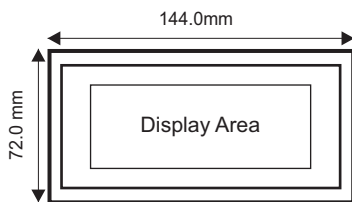


Panel Cutout

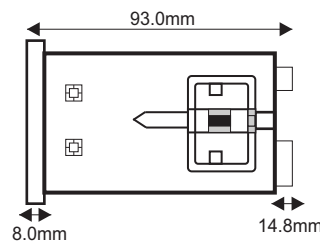


### Dimensional Details for 72x144 model

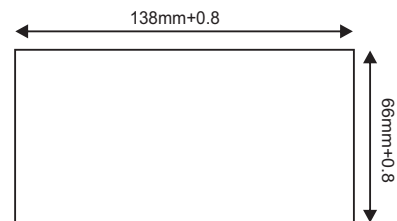
### Installation



Front View



Side View



Panel Cutout



Measure



Control



Record

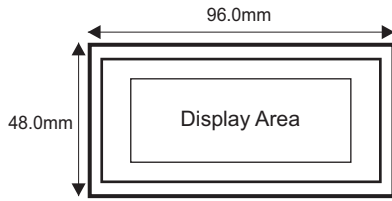


Analyze

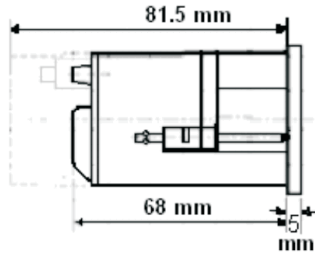


Optimize

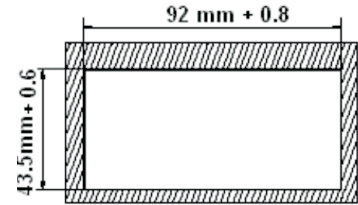
### Dimensional Details for 48x96 model



Front View

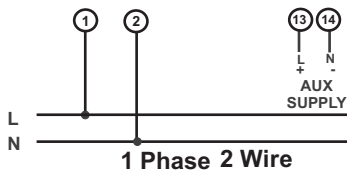


Side View



Panel Cutout

### Electrical Connection



### Ordering Information:

Ordering information	Ordering Code <i>RISH DPM Hz</i>
<b>Auxiliary Supply Voltage:</b>	
40 - 300 V AC DC $\pm$ 5%	HA
20 - 40 V AC / 20 - 60 V DC	LA
<b>DPM Size:</b>	
96 X 96mm	96
72 X 144mm	72
48 X 96mm	48

### Order Code Example:

**RISH DPM Hz - HA-96**

RISH DPM Hz, external higher aux (40V – 300V AC/DC) 96x96 mm.



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RISHABH

All specifications are subject to change without notice



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