

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



RISHABH
INSTRUMENTS
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



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 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
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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
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

Note:- Set Number of Poles such that RPM Should not cross 9999 else display will show dash on RPM screen.

$$\text{RPM} = (\text{Frequency} * 120) / \text{Number of Poles}$$



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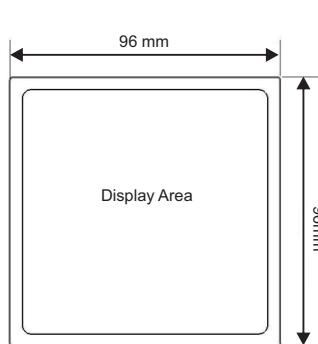
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RISH DPM Hz

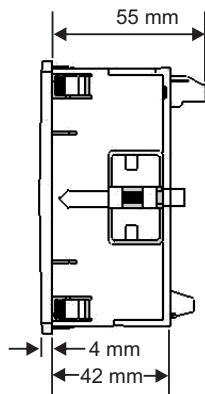
Digital Panel Meter

Dimensional Details for 96x96 model

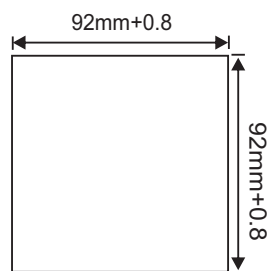
Installation



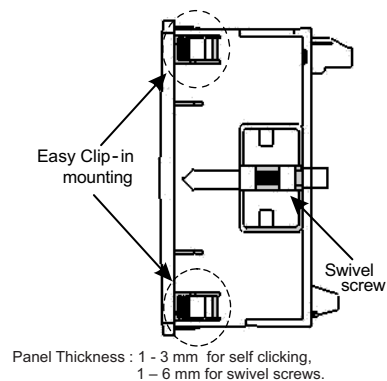
Front View



Side View



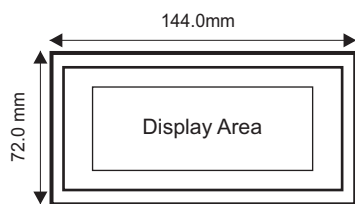
Panel Cutout



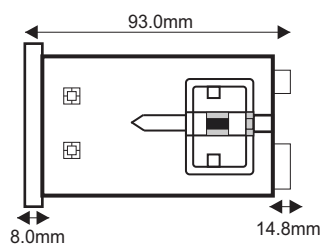
Panel Thickness : 1 - 3 mm for self clicking,
1 - 6 mm for swivel screws.

Dimensional Details for 72x144 model

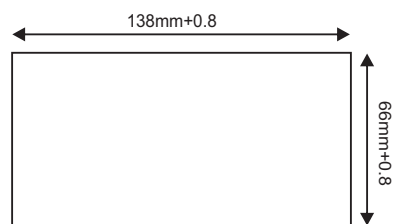
Installation



Front View



Side View



Panel Cutout



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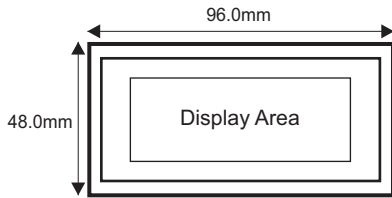
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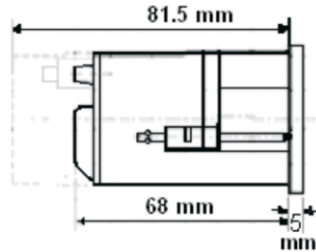
RISH DPM Hz

Digital Panel Meter

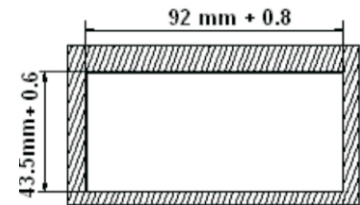
Dimensional Details for 48x96 model



Front View

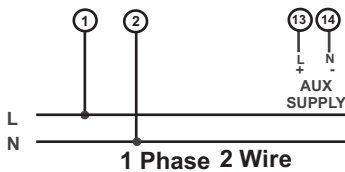


Side View



Installation Cutout

Electrical Connection



Ordering Information:

Ordering information	Ordering Code <i>RISH DPM Hz</i>
Auxiliary Supply Voltage:	
40 - 300 V AC DC \pm 5%	HA
20 - 40 V AC / 20 - 60 V DC	LA
DPM Size:	
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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