



Data Sheet

RISH DPM Hz

72X144 / 96X96 / 48X96



Measure



Control



Record



Analyze

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
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

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



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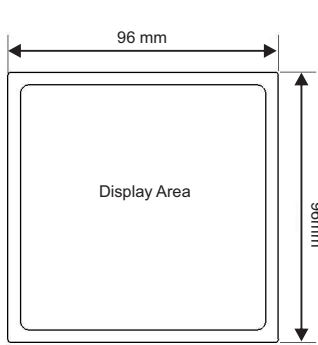
Record



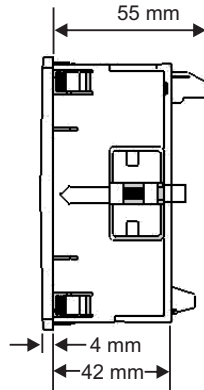
Analyze

Dimensional Details for 96x96 model

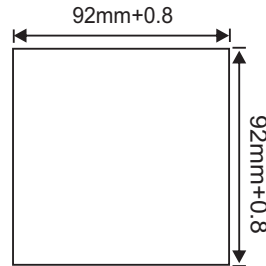
Installation



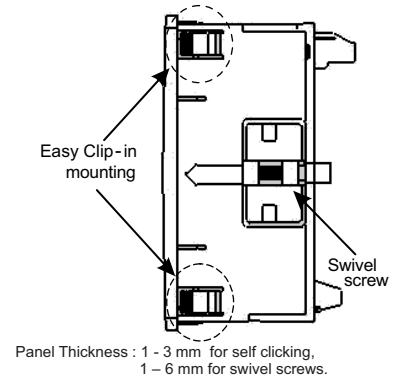
Front View



Side View

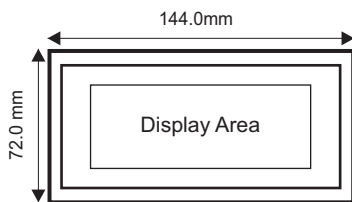


Panel Cutout

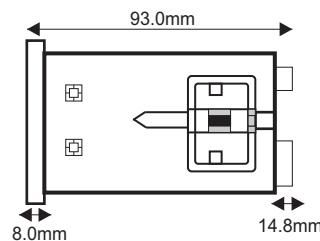


Dimensional Details for 72x144 model

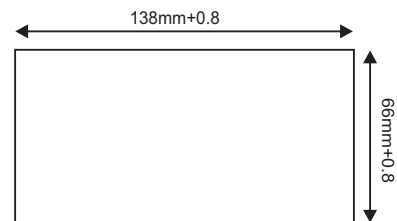
Installation



Front View



Side View



Panel Cutout



Measure



Control

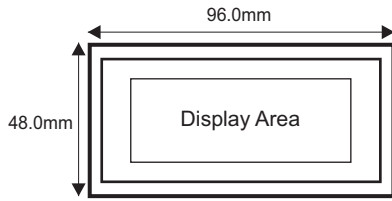


Record

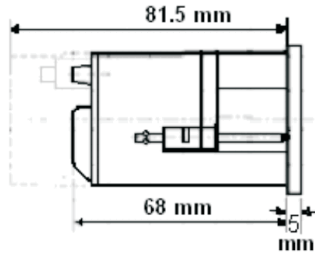


Analyze

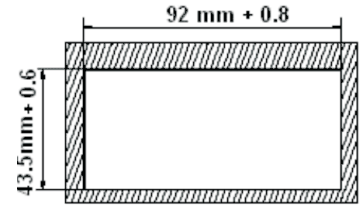
Dimensional Details for 48x96 model



Front View

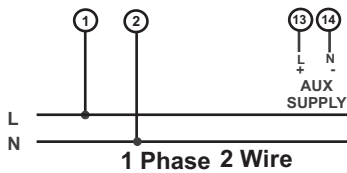


Side View



Panel Cutout

Electrical Connection



1 Phase 2 Wire

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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RISHABH

All specifications are subject to change without notice



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