



Data Sheet

RISH DPM Hz

(72X144 / 96X96 / 48X96)



Measure



Control



Record



Analyze



Optimize

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

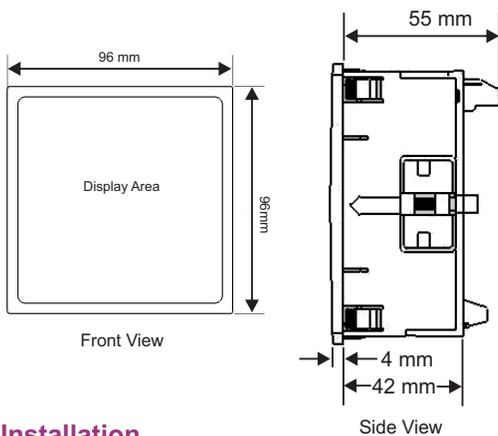
Compliance to International Safety standard IEC 61010-1- 2010

EMC Compatibility

Compliance to International standard IEC 61326

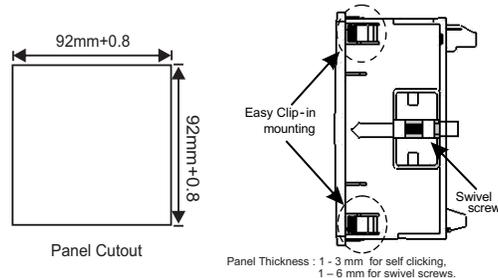
Dimensions Details

for 96x96 model



Installation

for 96x96 model



Technical Specifications:

Input

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

Reference Condition for Accuracy

Reference Temperature	23°C ± 2°C
Auxiliary Supply Voltage	Nominal Value ±1%
Auxiliary Supply Frequency	Nominal Value ±1%



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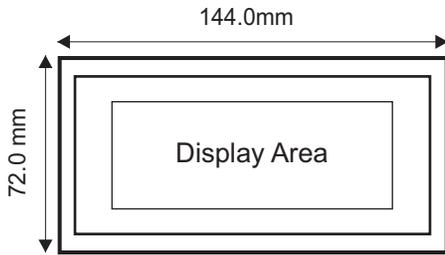
Analyze



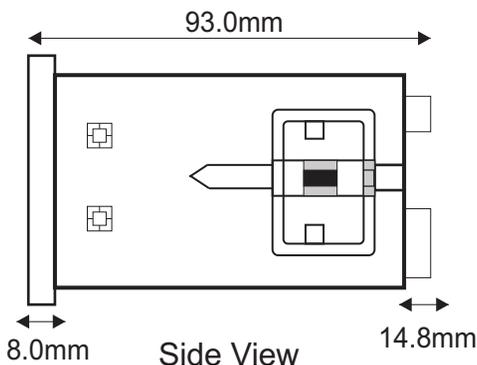
Optimize

Dimensions Details

for 72x144 model



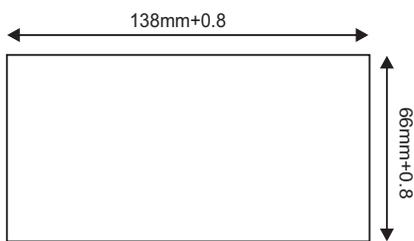
Front View



Side View

Installation

for 72x144 model



Panel Cutout

Technical Specifications

Accuracy

Frequency $\pm 0.5 \text{ Hz} \pm 1 \text{ Digit}$

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.

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



Measure



Control



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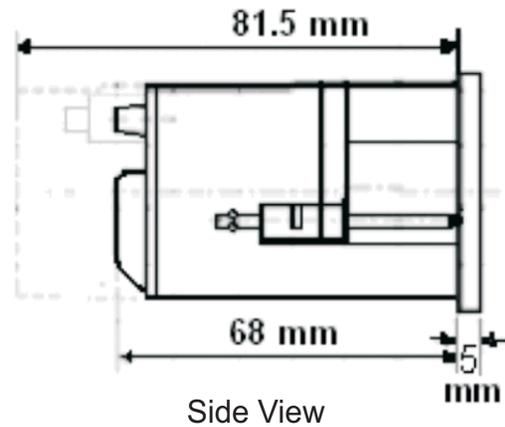
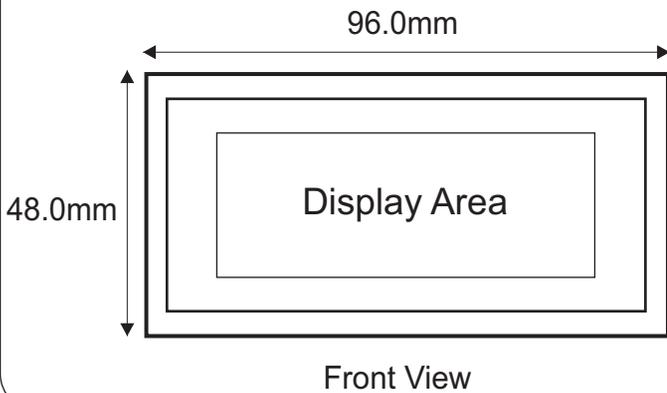


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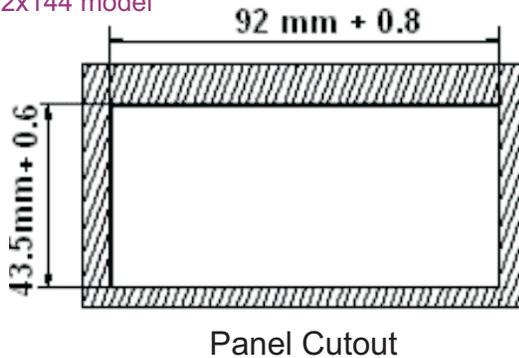
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Dimensional Details for 48x96 model

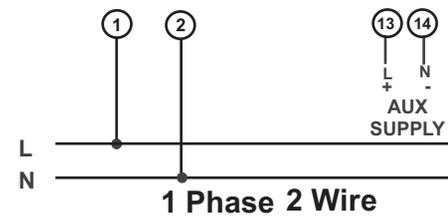


Installation

for 72x144 model



Electrical Connection



Ordering Information :

Ordering Information	DH10-	1F	1	XX	1	5	x	00000
Product Type	Frequency DPM - Rish DPM Hz							
Input frequency	10-500Hz							
Input voltage	50-500VL-N							
Auxiliary Supply	20-40V AC/ 20-60V DC			LA				
	40-300V AC/DC			EA				
Accuracy	Class 0.5							
Size	96 X 96mm						0	
	48 X 96mm						1	
	72 X 144mm						2	

Order Code Example : DH10-1F1EA15000000

RISH DPM Hz, Size 96x96mm, Input 10-500HZ, 50-500VLN, Aux supply 40-300V AC/DC, Accuracy 0.5



Measure



Control



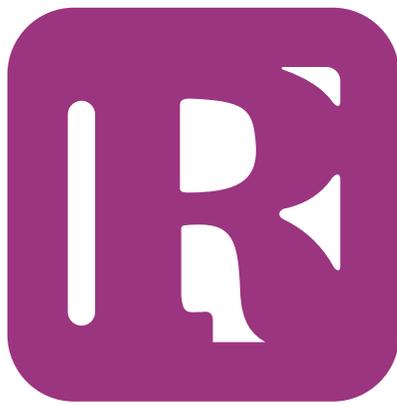
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