## RISH Fine DC DPM



RISH Eine+ has been designed for industrial applications. which frequently require precise and on-site adjustment of the display range.

## Applications:

- Distribution and Control Panels
- Electrical load monitoring
- In Laboratories
- In Industrial automation



## **Product Features:**

### Low Back Depth:(For 96x96 model)

▶ The instrument has very low back depth (behind the panel) of less than 40 mm.

#### Rescalable Display range:

▶ The meter is completely programmable and user can easily scale the values as per his requirements onfield. Setting for '-ve' sign and decimal point position is also provided.

#### **Function keys:**

▶ Using 2 function keys it becomes easy and convenient for user to program the meter without any difficulty.

#### **Bent Characteristics:**

▶ The meter supports bent characteristics. Hence user can configure the meter as per requirement.

#### **Power Factor Display:**

▶ The meter can be configured to display power factor also

#### **Ambient Temperature Indication:**

The meter gives an accurate indication of the ambient temperature in °C and °F.

#### **Auxillary Supply:**

The Auxillary supply ranges 40-300V AC-DC and 20-60V DC / 20-40V AC(For 96x96 model), supported.

#### 4 Full digits Ultra Bright LED display:

▶ 14mm full range display possible of 4 digits having maximum count - 9999.

#### Wide Input Range:

▶ Wide range of voltages and currents to choose from.

#### **Enclosure Protection for dust and water:**

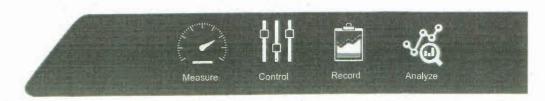
Conforms to IP 50 (front face) as per IEC 60529.

### Compliance to International Safety standards:

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

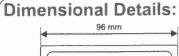
#### **EMC Compatibility:**

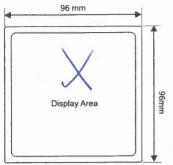
▶ Compliance to International standard IEC 61326 Class B.

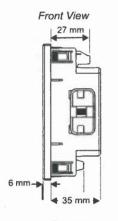


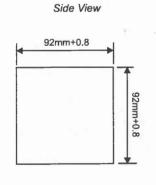
# **Data Sheet**

## RISH Eine DC DPM









Panel Cutout

## **Technical Specifications:**

Meas	uring	Ranges
INCAS	urnig	Tunges.

Model	RISH Eine + Voltage
Input mV ranges	-75075mV, -1500150mV
Input Voltage range	-505V, -10010V, 0500V, 01000V
Max continuous input voltage	120% of Nominal value

Model	RISH Eine + Current
Input Current ranges	-10010mA, -20020mA, 420mA, -101A, -505A
Max continuous input current	120% of Nominal value

## Accuracy:

RISH Eine <sup>+</sup> Voltage <sup>*</sup> (Input current < 300uA) for V/mV	<0.5% of Display End value ±1 digit
RISH Eine <sup>+</sup> Current <sup>*</sup> (Voltage drop < 600mV) for A/mA	<0.5% of Display End value ±1 digit
Ambient Temperature	±3 °C

## Influence of Variations:

Temperature coefficient	0.05% / °C, plus
Zero point drift	0.025% / °C

### Display:

Туре	1 line 4-digit LED display
Display Count Setting	-999910 or +10+9999 counts
Digit Height	14mm
Decimal point position	Configurable
Negative Display indication	( )
Overload Indication	" - oL - " (above 125% of nominal value)

\*Note: Refer formula for accuracy of bent characterstics.

Factor C (The highest value applies if calculated C is less than 1,then C=1 applies) Linear characteristics: Bent characteristics:

$$C = \frac{1 - \frac{Y0}{Y2}}{1 - \frac{X0}{X2}} \text{ or } C = 1$$

For 
$$X0 \le X \le X1$$
  $C = \frac{Y1 - Y0}{X1 - X0} \cdot \frac{X2}{Y2}$  or  $C = 1$ 

For X1 
$$\leq$$
 X  $\leq$  X2  $C = \frac{1 - \frac{Y1}{Y2}}{1 - \frac{X1}{X2}}$  or C=1

X0 = Start value of input, Y0 = Start value of display, X1 = Elbow value of input, Y1 = Elbow value of display

X2 = End value of input,Y2 = End value of display







