

## Applications:

The digital panel meters **RISH DPM 96 A / V DC** have been designed for industrial applications, which frequently require precise and on-site adjustment of the display range. It can be used in industrial automation and for laboratory uses.

## Features:

- Available in Size 96mm x 96mm.
- DC Current ranges and DC Voltage ranges.
- 3 ½ digit ultra bright Display.
- User defined caption
- Auxillary Power Supply :  
AC – 230V (+10% / -15%).  
AC – 110V (+10% / -15%).  
DC – 24V (21...30 V)

Highly adaptable DPMs suitable for a wide range of measuring applications.

Versions available for DC Current (mA) and DC voltage (mV & Volts) inputs.

The chosen input range is user adjustable, from 10% to 100% of the full-scale value for DC Current, DC mV & DC Voltage, for simple adaptation of the digital readout to the input value.

## Specifications:

<b>Display:</b>	Display range	: 1999
	Decimal point position	: Selectable by short links at the front side of Display.
	Negative display indication	: “-”
	Digit height	: 14 mm / 7- segment digits. (Optional : 20 mm)
	Overload indication	: Last 3 digits blank.

## Measuring ranges :

<b>Model</b>	<b>RISH DPM 96A DC</b>
DC Current Ranges Available (Voltage drop < 600 mV )	<b>0...20 mA</b> and <b>4...20 mA</b> (Range selection by input choice)
<b>Model</b>	<b>RISH DPM 96V DC</b>
1) DC mV Ranges Available (Input current < 300uA)	<b>0...75 mV</b> and <b>0...150 mV</b> (Range selection by input choice)
2) DC Voltage Ranges Available	<b>0...2V</b> or <b>0...20V</b> or <b>0...200V</b> or <b>0...500V</b> or <b>0...1000V</b> or Please specify any non-standard input Voltage range, available on request.

## Accuracy :

<b>RISH DPM 96A DC :</b>	Measuring Accuracy Current (Voltage drop < 600 mV)	: < 0.1% of range + 1 digit.
	Temperature coefficient.	: 300 ppm / °C.
	Zero point drift	: 200 ppm / °C.
	Range adjustment span	: from 10% to 100% of range.

## Description

### RISH DPM 96 A / V DC :

96A DC	DC Current measurement , 2 ranges
96V DC	DC Voltage measurement 1) mV input, 2 ranges 2) Voltage input, 1 range

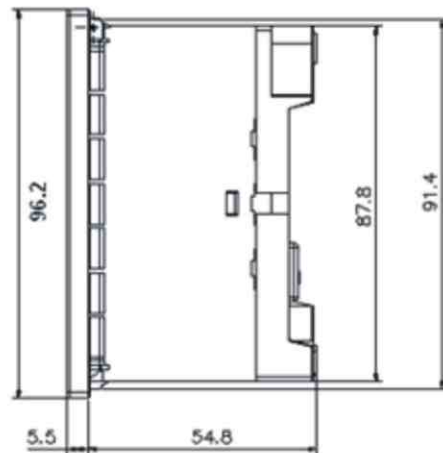
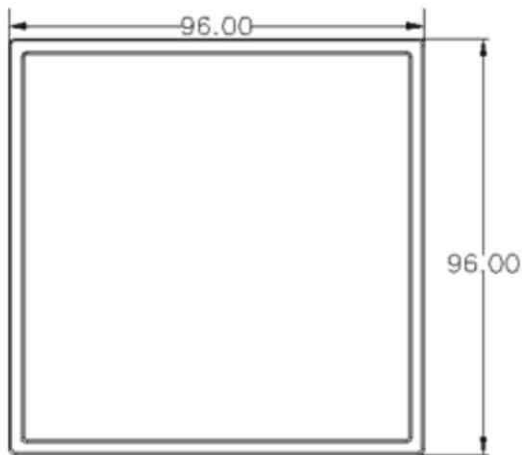
### Applicable Regulations and Standards

Protection Class	IP 20 to IEC EN 60 529
Front	IP 50
Device safety	IEC EN 61 010
EMC immunity	IEC/ EN 61 000-4-1 to 4
EMC radiated interference	IEC/ EN 61326 Class B

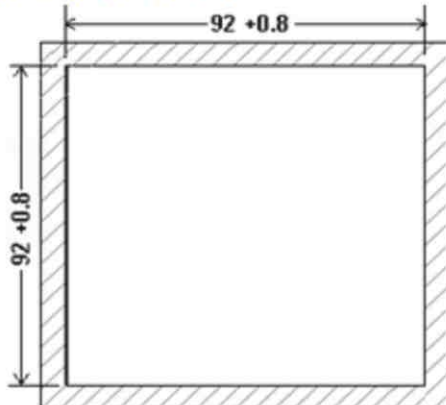
**RISH DPM 96V DC :**

<b>1) milli Volt ranges :</b>	Measuring Accuracy milli volts (Input current < 300uA) Temperature coefficient Zero point drift Range adjustment span	: < 0.1% of range + 1 digit. : 300 ppm / °C. : 200 ppm / °C. : from 10% to 100% of range.
<b>2) Volt ranges :</b>	Measuring Accuracy Volts (Input current < 300uA) Temperature coefficient Zero point drift Range adjustment span	: < 0.2% of range + 1 digit. : 300 ppm / °C. : 200 ppm / °C. : from 10% to 100% of range.
<b>Power supply</b>	3 ranges for power supply are available. Direct voltage DC Alternating voltage AC  Frequency	: 24 V DC (21...30V)      5.5W approx. (isolated). : 110 V AC (+ 10% / -15%)   5.5W approx. (isolated). : 230 V AC (+ 10% / -15%)   5.5W approx. (isolated). : 47 ... 60 Hz.
<b>Ambient conditions</b>	Operating temperature Storage temperature	: 0 ... 55 °C. : - 25 ... 70 °C.
<b>Dimensions and Weights</b>	Bezel size Panel cut-out Overall depth Weight	: 96 mm x 96 mm DIN 43 700 : 92 + 0.8 mm x 92 + 0.8 mm : 55 mm. : 500 gm. Approx.
<b>Sundry</b>	Connections	: Plug-in screw terminal blocks.

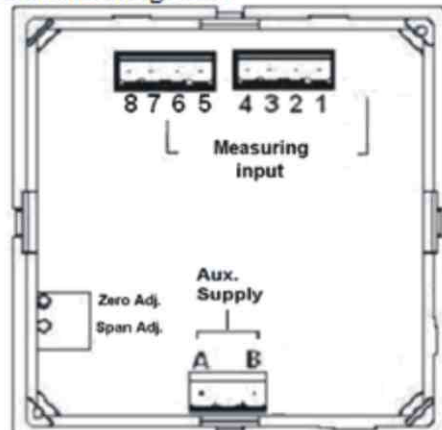
**Design and installation**



**Installation Cut-out :**



**Connections Diagram :**



## Connections :

### CONNECTION FOR RISH DPM 96A DC

Current DC      0... 20 mA : Terminals 1 and 2 with terminals 5 and 6 open.  
  
4... 20 mA : Terminals 1 and 3 plus jumper between terminals 5 and 6.

### CONNECTION FOR RISH DPM 96V DC – milli Volts

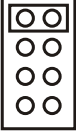

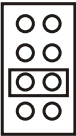

milli Volts DC :    0... 60 mV : Terminals 1 and 2.  
                          0... 150 mV : Terminals 1 and 3.

### CONNECTION FOR RISH DPM 96V DC –Volts

Volts DC :        0...2 V  
                      0...20 V  
                      0...200 V : Terminals 1 and 3.  
                      0...500 V  
                      0...1000 V

## Decimal point Adjustment :

Decimal point position is selectable by short links at the front side of Display.

Short Link Position	Decimal point position on Display
	XXXX
	X.XXX
	XX.XX
	XXX.X

## Order Details :

Type .....  
Measuring Input .....  
Display Full-Scale .....  
Display caption .....  
Aux. Supply .....

**Example1**  
RISH DPM 96 A DC  
0 ... 20 mA  
0 ... 1999  
mA  
110V AC, 50 Hz.

**Example2**  
RISH DPM 96 V DC  
0...1000 V  
0...1000  
V  
230V AC, 50 Hz



**RISHABH**  
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Measure, Control & Record with a Difference

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