

# DPM 96 x 96 4 ½ DIGIT ADC - B

## Operating Manual

The **DPM 96 x 96 ADC** is a Digital Panel Meter (DPM) in 96 x 96 size for measurement of DC Current. You can program the input current on the site either as 0 .... 20 mA DC or 4 ... 20 mA DC. Four ranges for power supply are available

## Operation :

By changing short links decimal point can be adjusted as shown in sticker on page 2. The full scale value on the display can be adjusted on site with potentiometer at the rear side of the instrument from 10% to 100% of FSD (FSD = 19999). Similarly it is possible to adjust the live zero ( in case of 4 - 20 mA) with the help of potentiometer at the rear side

Further **DPM 96x96 VDC** version from the series :  
**DPM 96 x 96 VDC** Instrument for DC Voltage measurement

## Technical Data:

<b>Display</b>	Display range Decimal point position Negative display indication Digit height Overload indication	19999 selectable by short links on the Front side. "_" 14 mm / 7- segment digits. last 4 digits blank (1 ).
<b>Measuring ranges</b> (Max overload 20% of Full scale range value)	Accuracy Current (Voltage drop < 600 mV) Temperature coefficient zero point drift Range adjustment span	< 0.1 % + 1 digit. DC 0...20mA or 4...20mA (on site programmable)  300 ppm / °C, plus. 200 ppm / °C. from 10% to 100% of range.
<b>Power supply</b>	Direct voltage DC  Alternating voltage AC (47 - 60 Hz)	24 V +/-15 % max. 5.5 W (isolated). 110 V +10 %, -15% max. 5.5 W (isolated). 110 V +10 %, -15% max. 5.5 W (isolated). 230 V +10 %, -15% max. 5.5 W (isolated).
<b>Environmental conditions</b>	Climatic class Operating temperature Storage temperature Safety class IP Protection  Device safety EMC immunity EMC radiated interference	Class 2 to VDE / DIN 3540. 0 ... 55 °C. -25 °C ... + 65 °C. II to IEC 348 / VDE 0411. IEC EN 60 529. For Back : IP 20. Front : IP 50 ( IP 54 on request ). According to IEC EN 61 010. According to IEC / EN 61 000-4-1 up to 4. According to IEC / EN 61326 class B.
<b>Dimensions and weights</b>	Front bezel size Panel cut-out Overall depth Weight Approx.	96 mm x 96 mm DIN 43 718. 92 + 0.8 mm x 92 + 0.8 mm. 55 mm. 500 gm.
<b>Sundry</b>	Connections	Plug and screw terminal blocks.

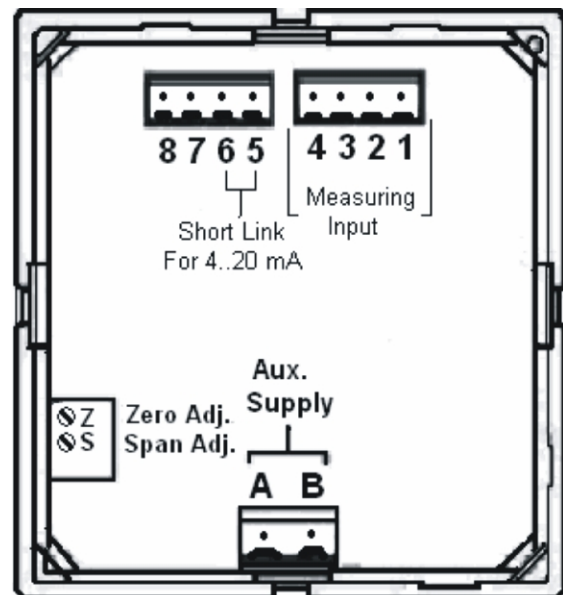


# DPM 96 x 96 4 1/2 DIGIT ADC - B

## Sample sticker

<b>DPM 96X96 4 1/2 ADC</b>			<b>Sr. No.</b> / /										
Range: 0... 20mA			Display: 19999										
<b>Aux Supply</b>	A	N(~)	230 VAC, 50 Hz										
	B	L(~)	(+10 % -15 %)										
<b>Input Current (I)</b>	1	LO	COMMON										
	2	HI	0... 20 mA										
	3	HI	4... 20 mA										
	5	-	Short the Terminals 5 & 6 for 4... 20 mA Input range										
	6	-											
⓪ Z – Zero Adj. ⓪ S – Span Adj.													
<table border="0"> <tr> <td>X.XXXX</td> <td><input type="radio"/></td> <td rowspan="4">Front Display View</td> </tr> <tr> <td>XX.XXX</td> <td><input type="radio"/></td> </tr> <tr> <td>XXX.XX</td> <td><input type="radio"/></td> </tr> <tr> <td>XXXX.X</td> <td><input type="radio"/></td> </tr> </table> Select Short Link Position for Decimal point Adjustment					X.XXXX	<input type="radio"/>	Front Display View	XX.XXX	<input type="radio"/>	XXX.XX	<input type="radio"/>	XXXX.X	<input type="radio"/>
X.XXXX	<input type="radio"/>	Front Display View											
XX.XXX	<input type="radio"/>												
XXX.XX	<input type="radio"/>												
XXXX.X	<input type="radio"/>												

## Connection Diagram



## Measuring Input

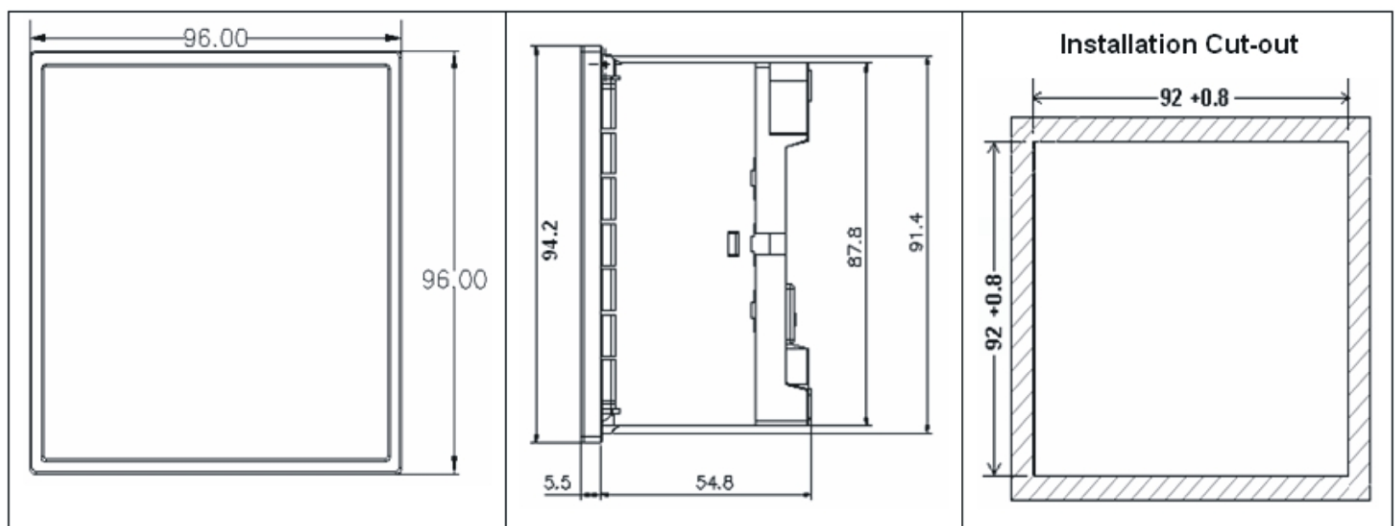
Current DC : 0... 20 mA

4... 20 mA

Display adjust (with external calibrator)  
 Decimal point programming

Terminals 1 and 2 with terminals 5 and 6 open.  
 Terminals 1 and 3 plus jumper between terminals 5 and 6.  
 With zero and span pots at rear side.  
 With short links at Front side.

## Design & Installation



**Caution :** Do not change the short links on Display (for decimal point adjustment) when the input is applied to the DPM.



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

**RISHABH INSTRUMENTS PVT.LTD.**  
 F-31, MIDC, Satpur, Nashik-422 007, India.  
 Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064  
 E-mail : India :- marketing@rishabh.co.in  
 International :- exp.marketing@rishabh.co.in  
 www.rishabh.co.in