

Operating Manual

The *Rish DPM 24/48 F* are digital panel meters for connection of measurement for voltage (0 ... 0.2 V, 0 ... 2 V or 0 ... 20 V) with 3 ranges.

Operation:

The setting of measuring range and display range is made by positioning DIP switches. The chosen input range is user adjustable from 10% to 100 % of the full scale value by potentiometer on the rear of the meter.

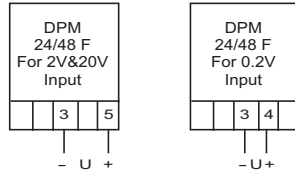
Further *RISH DPM 24/48 F* versions from the series:

RISH DPM 24/48 D For Voltage and Current measurement, 4 ranges

Technical data

Display	Display range	1999	
	Decimal point position	selectable	
	Negative display indication	"_"	
	Digit height	8 mm / 7-segment digits	
	Overload indication	last 3 digits blank	
Measuring range	Direct voltage	0 ... 0.2 V	
	(Input current < 100 μ A)	0 ... 2 V 0 ... 20 V	
	Range adjustment	1:10	
	Accuracy	< 0.2 % of range + 1 digit	
	Temperature coefficient	100 ppm / °C, plus	
	Zero point drift	200 ppm / °C	
Supply of power	Direct voltage DC	12 V DC (\pm 10 %)	1.2 W, isolated
		24 V DC (\pm 10 %)	1.2 W, isolated
		48 V DC (\pm 10 %)	1.2 W, isolated
Environmental conditions	Climatic class	Class 2 to VDE / DIN 3540	
	Operating temperature	0...50 °C	
	Storage temperature	-40 °C ... +80 °C	
	Safety class	II to IEC 348/VDE 0411	
	Protections class	IP 20 to IEC EN 60 529	
	Front	IP 54 (IP 65 on request)	
	Device safety	correspond IEC EN 61 010	
	EMC immunity	correspond DIN EN 61 000-4-1 to 4	
EMC radiated interference	correspond DIN EN 50 081 class B		
Dimensions and weights	Bezel size	48 mm x 24 mm to DIN 43 718	
	Panel cut-out	45 +0.6 mm x 22.2 +0.3 mm	
	Overall depth	69 mm	
	Weight	45 g approx	
Sundry	Connections	Plug-in screw	
Options	5 V Power supply		
	Zero suppression		

Connections



RISHABH INSTRUMENTS PVT. LTD., NASHIK, (INDIA)						
RISH DPH 24/48 F						
Sr. No. 03/11/1234						
Range : 0...2V			Display : 0...1999			
DIP Switch	1	2	3	4	5	6
XXX.X	ON					
XX.XX		ON				
X.XXX			ON			
0 ... 0.2 V						
0 ... 2 V				ON		
0 ... 20 V					ON	
1	2	3	4	5	6	ON
Aux. Supply : : 24 V DC						Span
Supply						⊗
-	+	-U	+U	+U		
1	2	3	4	5		

Measuring input

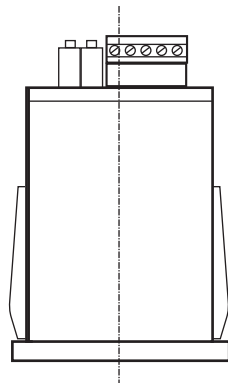
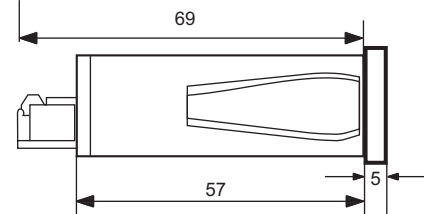
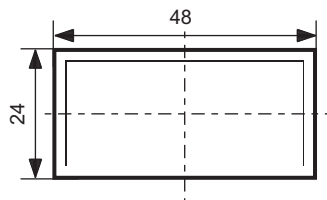
Voltage input

Terminals + U (5) and -U (3) For 2V & 20V Input
Terminals +U (4) and -U (3) for 0.2V Input
Range selection is done with DIP switch

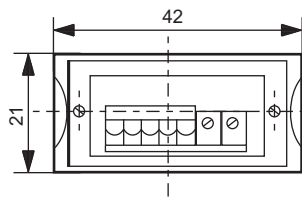
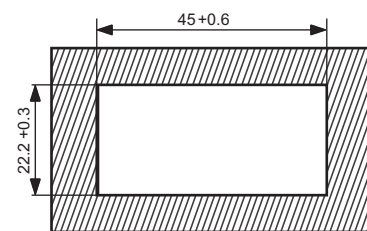
Span Pol

For FSD Adjustment

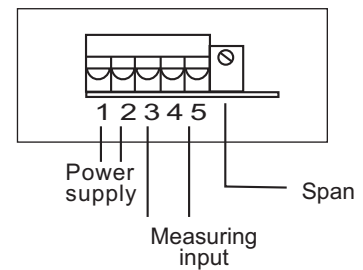
Design and Installation



Panel cut-out



Connections



Subject to change without notice!

RISHABH INSTRUMENTS PVT. LTD.

F-31, MIDC, Satpur, Nasik - 422 007, India.

Tel : +91 253 2202202, 2202162

Fax : +91 253 2351064, 2202 302

E-mail: service@rishabh.co.in

Website: www.rishabh.co.in

10/2006 (Rev. A)
Printed in India