

# RISH DPM 24/48 D



## Operating Manual

The **RISH DPM 24/48 D** are digital panel meters for connection of measurement for voltage (10 V) and current (1 mA, 20 mA or 4 ... 20 mA) with 4 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 D** versions from the series:

**RISH DPM 24/48 F** Voltage measurement, 4 ranges.

### Technical data

<b>Display</b>	Display range	1999
	Decimal point position	selectable
	Negative display indication	"-"
	Digit height	8 mm / 7-segment digits
	Overload indication	last 3 digits blank
<b>Measuring range</b>	Direct voltage	0 ... 10 V (input current < 100 uA)
	Direct current	0 ... 1 mA; 0 ... 20 mA; 4 ... 20 mA (Voltage drop < 200 mV)
	Range adjustment	1 : 10
	Accuracy	< 0.2 % of range + 1 digit
	Temperature coefficient	100 ppm / °C, plus
	Zero point drift	200 ppm / °C
<b>Supply of power</b>	Direct voltage DC	48 V DC (± 10 %)      1.2 W, isolated 21 ... 30 V DC      1.2 W, isolated 12 V DC (± 10 %)      1.2 W, isolated
	<b>Environmental conditions</b>	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
	<b>Dimensions and weights</b>	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
<b>Sundry</b>	Connections	Plug-in screw

## Connections

## Rating plate

IRISHABH DPH 24/48 D						
Sr. No.						
Range : 4...20 mA			Display : 1999			
DIP SWITCH	1	2	3	4	5	6
XXX.X	ON					
XX.XX		ON				
X.XXX			ON			
1 mA						
20 mA				ON		
4 ... 20 mA					ON	ON
0 ... 10 V						
Aux. Supply : 24 V DC						
Supply					Span Zero	
-	+	-I	-U	+U		
1	2	3	4	5		

## Measuring input

Voltage input

Current input

Terminals + U and -U (3 and 5)

Terminals + I and -I (3 and 4)

Terminals + I and +U (4 and 5)

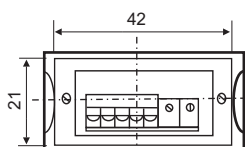
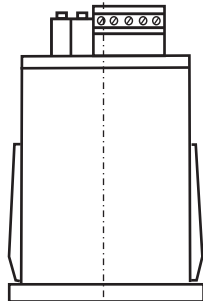
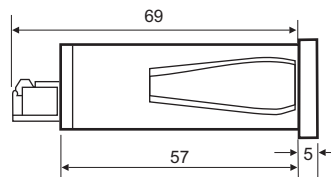
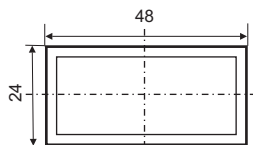
connected

Range selection with DIP switch

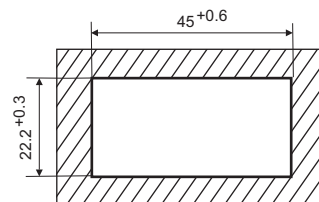
with potentiometer (4 ... 20 mA range)

Zero

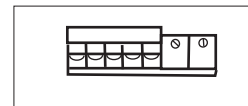
## Design and Installation



### Panel cut-out



### Connections



Power supply

Measuring input