

Features :

- Multi-range versions
- DC or AC, Voltage or Current ranges
- Pt 100 temperature version
- Scaling adjustable over a wide range

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

Versions available for current or voltage inputs(DC and AC), or Pt 100 temperature sensors. The chosen input range is user adjustable, from 10% to 100% of the full-scale value, for simple adaptation of the digital readout to the input value.

For example, the AC version can be scaled for standard 5A secondary current transformers.

96mm x 48mm DIN-standard housings.

Applications

The digital panel meter RISH DPM 48 x 96 have been designed for industrial applications, which frequently require precise, on-site adjustment of the display range.

It can be used in industrial automation and for laboratory uses.

It provides cost-effective solution for virtually all switchboard instruments.

Specifications

Display	Display range	1999
	Decimal point position	selectable by rear jumper position
	Negative display indication	"-"
	Digit height	14 mm / 7-segment digits
	Overload indication	Last 3 digits blank

Measuring ranges

[Max. Overload 20% of full-scale range value]

Version	A	B	C	F	AC	T
					[50 .. 60 Hz]	°C or °F
Voltage			0...60 mV	0...2 V	0...500 V	
Input current < 300 µA			0...75 mV	0...20 V		
			0...150 mV	0...200 V		
				0...500 V		
Current	0...2 mA	0...20 mA			0...1 A	
Voltage drop < 600 mV	0...20 mA	4...20 mA			0...5 A	
	0...200 mA					
Pt 100 sensors						-100...850°C
						-199.9...199.9°C
						2-, 3- or 4- wire
Range selection by	Input choice	Input choice	Input choice	Input choice	DIP switch/ Input choice	DIP switch

Accuracy

Versions A, B, C:

Measuring Accuracy DC	< 0.1% + 1 digit
Temperature coefficient	100 ppm/ °C, plus
Zero point drift	100 ppm/ °C

Versions F :

Range adjustment span	from 10% to 100% of range
Measuring Accuracy DC	< 0.2% + 1 digit
Temperature coefficient	100 ppm/ °C, plus
Zero point drift	100 ppm/ °C

Versions AC :

Range adjustment span	from 10% to 100% of range
Measuring Accuracy DC	< 0.5% + 1 digit
(Input current < 500 µA)	
Measuring Accuracy Current	< 0.5% + 1 digit



Description

RISH DPM 48 x 96

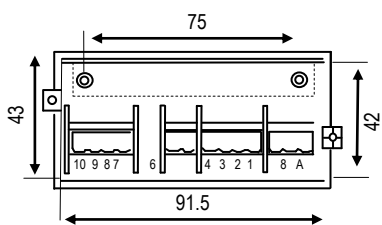
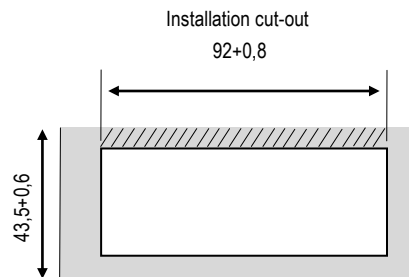
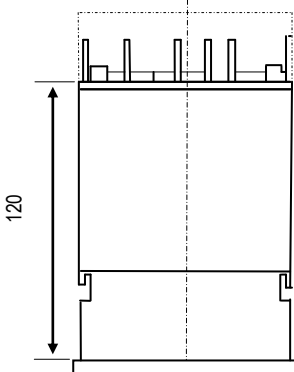
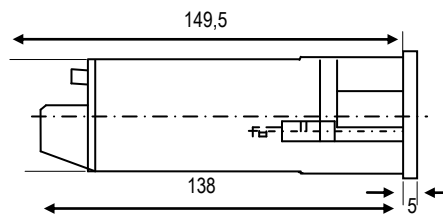
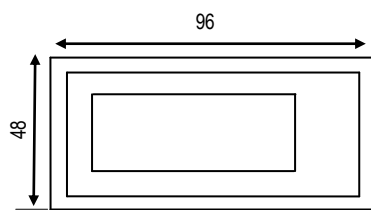
A	Current measurement, 3 ranges
B	Current measurement, 2 ranges
C	Voltage measurement, 2 ranges
AC	Voltage and Current measurement (AC), 3 ranges
F	Voltage measurement, 4 ranges
T	Temperature measurement with Pt100, 2 ranges

5 ranges for power supply are available

Applicable Regulations and Standards

Protection class front	IP 20 to IEC EN 60 529 IP 50 (IP 54 on request)
Climatic class	Class 2 VDE/DIN 3540
Safety class	II to IEC 348 / VDE 0411
Device safety	to IEC EN 61 010
EMC immunity	DIN EN 61 000-4-1 to 4
EMC radiated interference	DIN EN 50 081 class B

Versions AC :	(Voltage drop <math><600\text{mV}</math> Temperature coefficient Zero point drift	100 ppm/ °C, plus 200 ppm/ °C
Versions T :	Range adjustment span Measuring Accuracy DC Temperature coefficient Zero point drift Range adjustment span Max. Allowable line resistance	from 10% to 100% of range <math>< 0.2\% + 1 \text{ digit}</math> 100 ppm/ °C, plus 100 ppm/ °C $\pm 5\%$ 2L 10Ω 3L <math>< 50 \Omega</math> 4L <math>< 50 \Omega</math>
Digital input	HOLD [optional]	"0" (not available for Versions AC, or T)
Power supply	Direct voltage DC	$5\text{V} \pm 5\%$ 1w max. Non isolated
	Common mode voltage	-0.5V ... 1.5V max. $24\text{V} \pm 15\%$ 4W approx.
Ambient conditions	Alternating voltage AC	$24\text{V} + 10\% - 15\%$ 4W approx. $110\text{V} + 10\% - 15\%$ 4W ap $230\text{V} + 10\% - 15\%$ 4W approx.
	Operating temperature	0 ... 50 °C
	Storage temperature	-40 ... 80 °C
	Dimensions and Weights	Bezel size Panel cut-out Overall depth Weight Connections
Sundry		



Mounting position

Connections

Order Details	Example
Type: RISH DPM 48/96 AC
Measuring input: 0...1A
Display: 0...1000
Display caption: A
Options:
Supply Voltage: 24 V DC

