

RISH DPM 48/96 A, B, C, F, AC, T - Digital Panel Meter



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, Ni 100 2 ranges

9 ranges for power supply are available

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.

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



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Measure, Control & Record with a Difference

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Specifications

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

Measuring ranges

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

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

Power supply	Direct voltage DC	5V +/- 10 % 12V +/- 10 % 24V (21...30 VDC) 48V +/- 10 % 110V +/- 10 % 220V +/- 10 %	max 5.5W approx. (isolated) max 5.5W approx. (isolated) max 5.5W approx. (isolated) max 5.5W approx. (isolated) max 5.5W approx. (isolated) max 5.5W approx. (isolated)
	Alternating voltage AC	24V +10%, -15% 115V + 10% -15% 230V + 10% -15%	max 5.5W approx. (isolated) max 5.5W approx (isolated) max 5.5W approx (isolated)

*For DC voltage version isolation is 1 KV, for AC voltage version isolation is 2 KV

Ambient conditions	Operating temperature	0 ... 50 ⁰ C
	Storage temperature	-40 ... 80 ⁰ C

Dimensions and Weights	Bezel size	96 mm x 48 mm DIN 43 718
	Panel cut-out	92 +0.8 mm x 43.5 + 0.6 mm
	Overall depth	138 mm
	Weight	500 g. approx.
	Sundry	Connections



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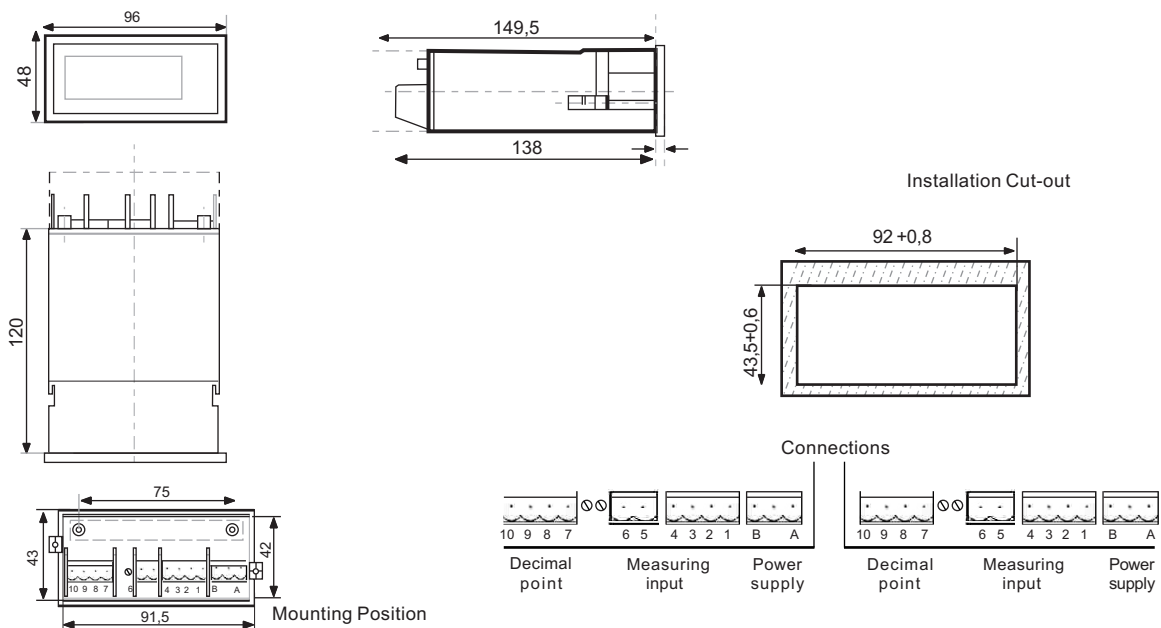
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Accuracy

Versions A, B, C:	Measuring Accuracy DC	< 0.1% + 1 digit
	Temperature coefficient	100 ppm/ °C, plus
	Zero point drift	100 ppm/ °C
	Range adjustment span	from 10% to 100% of range
Versions F :	Measuring Accuracy DC	< 0.2% + 1 digit
	Temperature coefficient	100 ppm/ °C, plus
	Zero point drift	100 ppm/ °C
	Range adjustment span	from 10% to 100% of range
Versions AC :	Measuring Accuracy Voltage (Input current < 500 A)	< 0.5% + 1 digit
	Measuring Accuracy Current (Voltage drop < 600mV)	< 0.5% + 1 digit
	Temperature coefficient	100 ppm/ °C, plus
	Zero point drift	200 ppm/ °C
Versions T :	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
Digital input	Range adjustment span	+ 5%
	Max. Allowable line resistance	
	2L	10
	3L	< 50
	4L	< 50
		"0" (not available for Versions B, F, AC)



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Ordering Informations

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



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