

ZIEGLER DPM 48/96 A, B, C, F, AC, T

Digital Panel Meter

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 ZIEGLER 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.

Description

ZIEGLER 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

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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 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 μ 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...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
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 μ A)	< 0.5% + 1 digit
Measuring Accuracy Current (Voltage drop < 600 mV)	< 0.5% + 1 digit
Temperature coefficient	100 ppm/°C, plus
Zero point drift	200 ppm/°C
Range adjustment span	from 10% to 100% of range

Versions T :

Measuring Accuracy DC	< 0.2% + 1 digit
Temperature coefficient	100 ppm/°C, plus
Zero point drift	100 ppm/°C
Range adjustment span	\pm 5%
Max. Allowable line resistance	
2L	10 Ω
3L	< 50 Ω
4L	< 50 Ω

Digital input

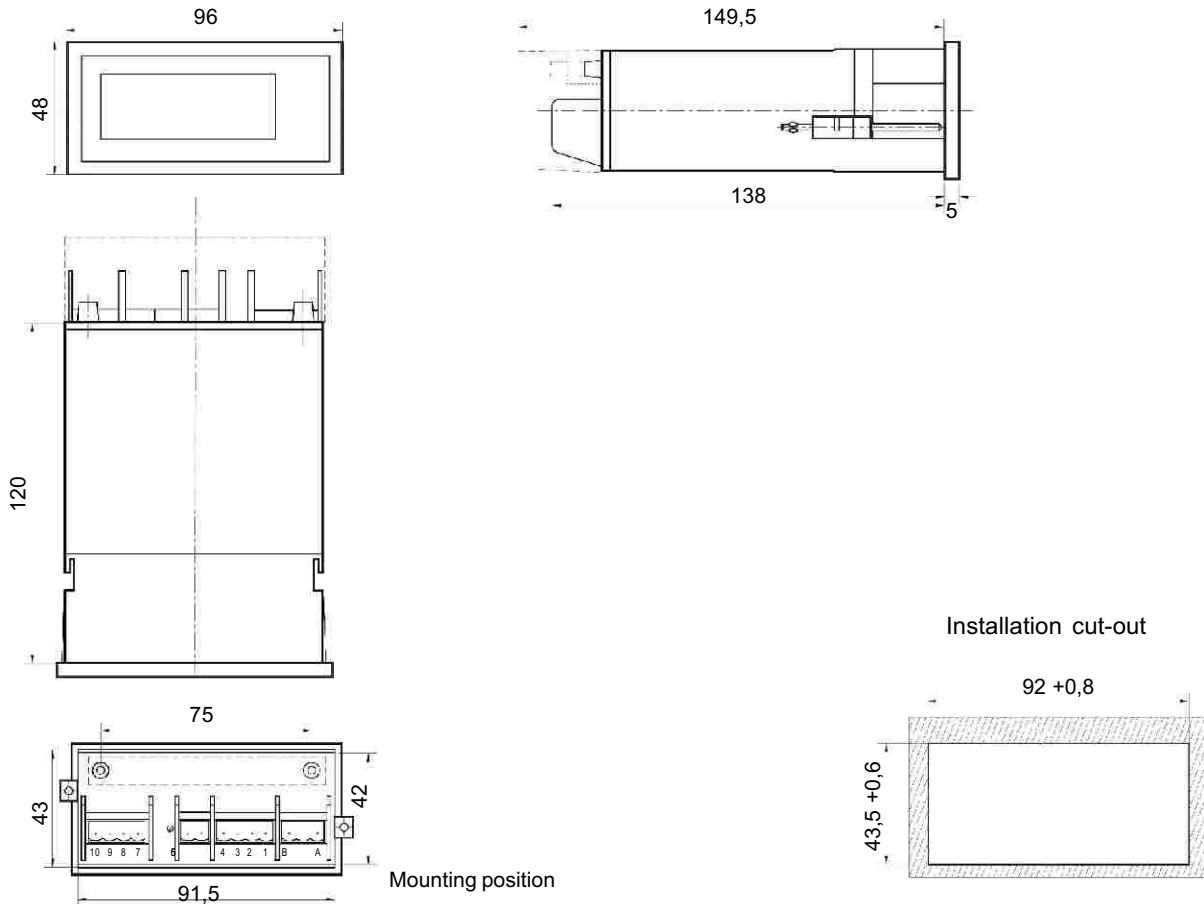
HOLD [optional]

"0" (not available for Versions AC, or T)

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Power supply	Direct voltage DC	5V ± 5%	1W max. Non isolated
	Common mode voltage	-0.5V ... 1.5V max.	
	Alternating voltage AC	24V ± 15%	4W approx.
		24V + 10% - 15%	4W approx.
		110V + 10% - 15%	4W approx.
		230V + 10% - 15%	4W approx.
Ambient conditions	Operating temperature	0 ... 50 °C	
	Storage temperature	-40 ... 80 °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	plug-in screw terminal block	

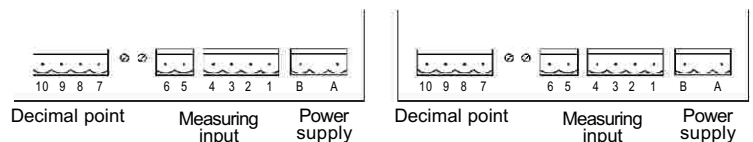


Order Details

Example

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

Connections



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