



Application:

The digital panel meter DPM 48 x 96 has been designed for industrial applications, which frequently require precise, onsite adjustment of the display range.

It can be used in industrial automation and for laboratory uses. It provides a cost effective for virtually all switch-board instruments.

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.
- 96 mm x 48 mm DIN-standard housings

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 120% of full-scale range value]						
Version	A	B	C	F	AC	T
					[50...60 Hz]	°C or °F
Voltage				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...20 mA	0...20 mA			0...1 A	
Voltage drop, 600 mV	0...2 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

Description:

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

4 ranges for power supply are available

Applicable Regulations and Standards	
Protection Class	IP 20 to IEC EN 60 529
Front	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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Description Cont.:

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
Version 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
Version AC	Measuring Accuracy Voltage (Input current <500mA)	<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
	Range adjustment span	From 10% to 100% of range
Version T	Measuring Accuracy DC	<0.2% + 1 digit
	Temperature coefficient	100 ppm/°C, plus
	Zero point drift	100 ppm/°C
	Range adjustment span	±5%
	Max. Allowable line resistance	
	2L	10 Ω
	3L	< 50 Ω
	4L	< 50 Ω
Digital Input	HOLD [optional] "0" (not available for all versions AC or T)	

Ambient Conditions	
Operating Temperature	0....50°C
Storage Temperature	-40....80°C

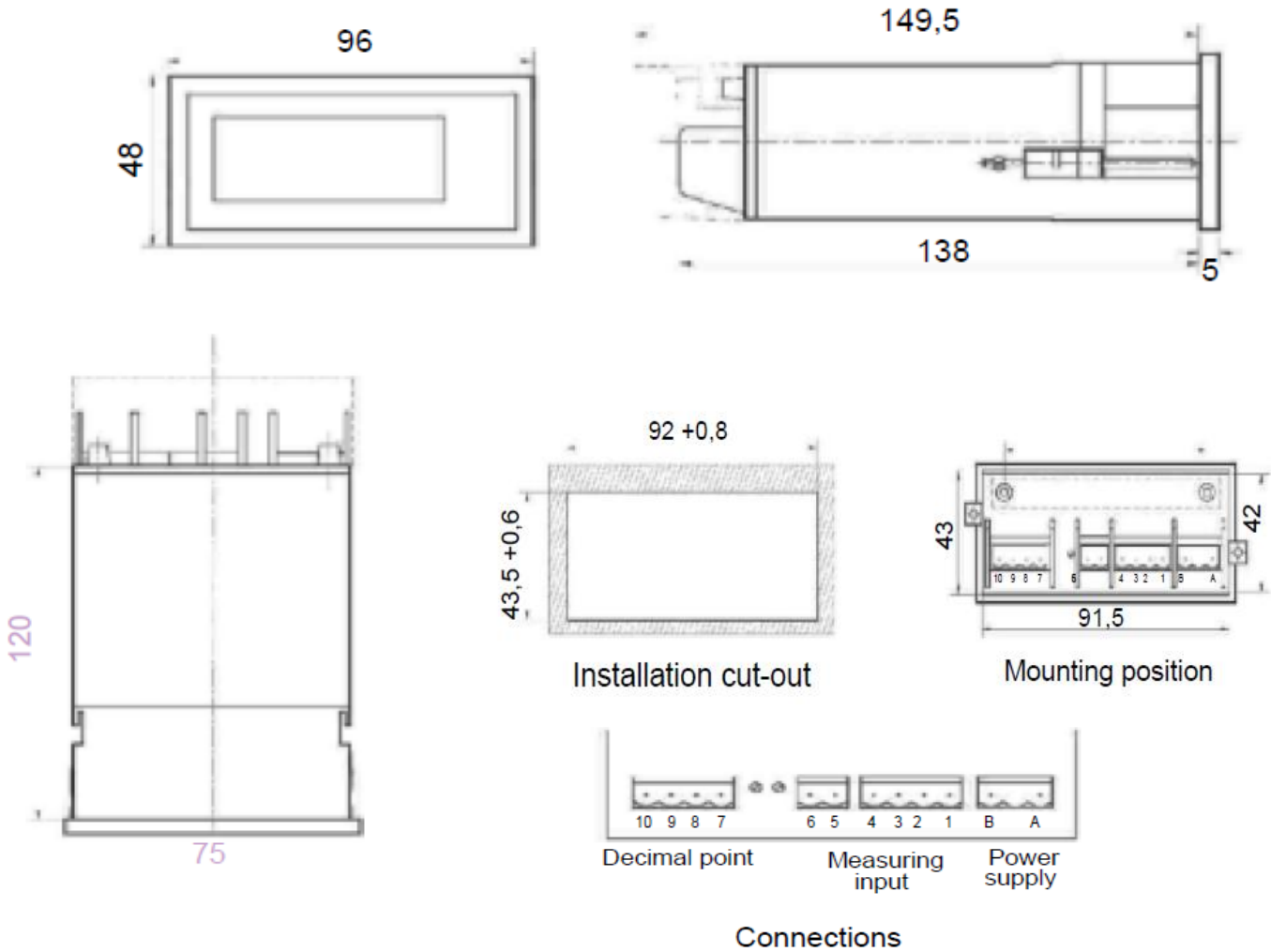
Dimensions and Weight	
Bezel size	96 mm x 48 mm DIN 43 718
Panel cut-out	92 ^{+0,8} mm x 43.5 ^{+0,6} mm
Overall depth	138 mm
Weight	500 g. approx.

Sundry	
Connections	Plug-in screw terminal block

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Design and Installation:



Order Details:

	Example
Type	DPM 48 x 96 AC
Measuring Input	0.....1A
Display	0.....1000
Display Caption	
Options	A
Supply Voltage	24 V DC