

Technical Data Sheet

Presure • Temperature • Humidity • Air Velocity • Air Flow



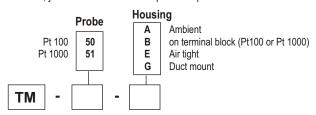
Temperature transmitter TM 50



- Temperature transmitter type TM 50/51
- Pt100 3 wires output or Pt1000 2 wires (according to the model)
- ABS IP65 and IP 30 housing, without display
- Quick and easy mounting "1/4 turn" system with wall-mount plate

■ Part number

To order, just add the code to complete the part number

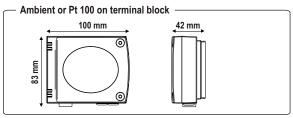


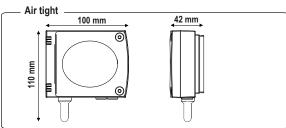
Example : TM 50-A

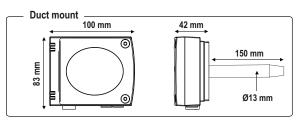
Model: temperature transmitter TM 50, ambient housing IP 30.

Dimensions

(with wall-mount plate)







Features of the transmitter

Temperature

Working principle: a platinum resistance (Pt 100 or Pt1000) is a resistance with a positive temperature coefficient which varies according to the temperature. The higher the temperature is, the more the value of the resistance increases.

Example : for 0°C \simeq 100 Ω - for 100°C \simeq 138,5 Ω (Pt100) for 0°C \simeq 1000 Ω - for 100°C \simeq 1385 Ω (Pt1000)

Measuring range	20 to +80°C (air tight and duct mount model)
	+10 à +40°C (ambient model)
Accuracy*	Pt100 class A as per DIN IEC751
-	Pt1000 class A as per DIN IEC751
Response time	1/e (63%) 5 sec. (ambient model)
	1/e (63%) 20 sec. (air tigth model)
	depending on the probe (Pt100 on terminal block)
Type of fluid	air and neutral gases

Features of the housing

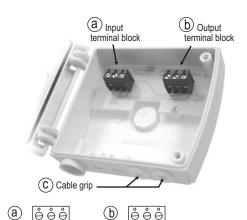
Housing	ABS
Fire-proof classification	HB as per UL94
Dimensions	see drawing beside
Protection	IP 65 (air tight, duct mount and Pt100 on
	terminal block models)
	IP 30 (ambient model)
Cable grip	for cables Ø 7 mm max.
Weight	110 g

■ Technical specifications

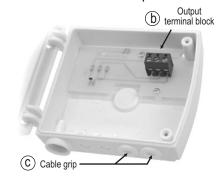
Output	Pt100 (3 wires) or Pt1000 (2 wires)
•	screw terminal block for cables Ø 1.5 mm² max.
Working temperature	20 to +80°C (air tight model)
	+10 to +40°C (ambient model)
	depending on the probe (Pt100 on terminal block)
Storage temperature	10 to +70°C
Environment	air and neutral gases

^{*}All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

TM 50-B • Pt100 or Pt1000 input and output on terminal block

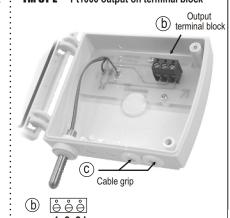


For the model TM 50-A and TM 51-G • Pt100 output on terminal block TM 51-A and TM51-G • Pt1000 output on terminal block



For the model

TM 50-E • Pt100 output on terminal block TM 51-E • Pt1000 output on terminal block



C Cable grip: to insert the cable, it is required to slightly cut the rubber.

Pt 100 connections

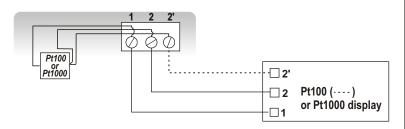
For the model

This connection must be made by a qualified technician.

TM 50-B • Input and output Pt100 on terminal block

For the model

TM 50-A and TM 50-E • output Pt100* on terminal block TM 51-A, TM 51-G and TM 51-E • output Pt1000* on terminal block



- * Pt100 connection is usually made in 3 wires; the third wire is dedicated to resistance compensation of the connection cables.
- * With Pt1000, the resistance of connection cables has less influence on the measurement than with Pt100. Therefore, Pt1000 cabling is generally made with only 2 wires.

Mounting

in option

Installation: mount the ABS plate on the wall (this plate is supplied with the transmitter).

Pt100 display

Drilling: Ø 6 mm with the screws and pins supplied with the transmitter.

Insert the transmitter into the plate (see points A of the drawing shown beside), by tilting it at 30°. Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.

73 mm 0 Ø8 mm **ABS** (Φ) 20 88 plate Ø 4,5 mm 0

Maintenance

Please avoid any aggressive solvent.

Please protect the transmitter and its probes from any cleaning product containing formol, that may be used for cleaning rooms or ducts.

Options

Distributed by:

Pt 100 or Pt1000 temperature probes



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Ref. FT ang - TM 50 - 06/05 B - We reserve the right to modify the characteristics of our products without notice.