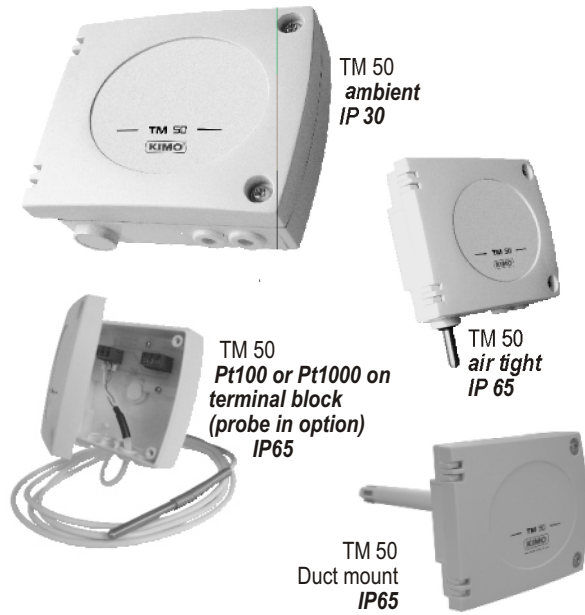


Temperature transmitter TM 50

- 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

Probe		Housing	
Pt 100	50	A	Ambient
Pt 1000	51	B	on terminal block (Pt100 or Pt 1000)
		E	Air tight
		G	Duct mount

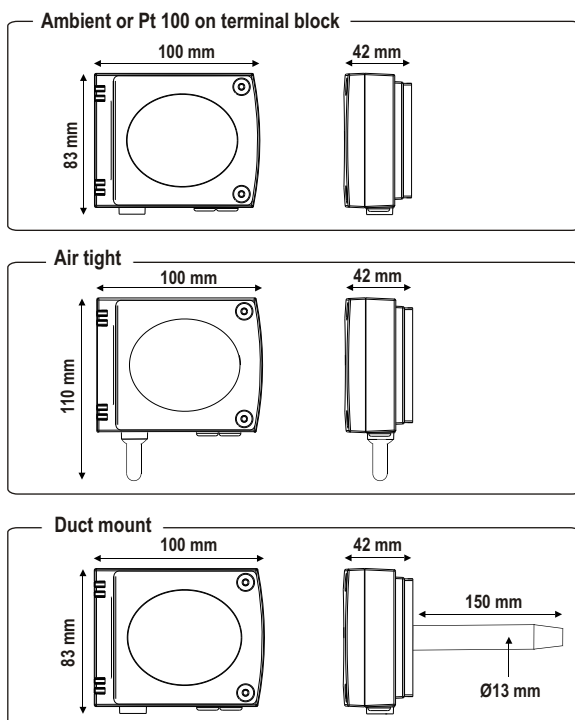
TM - [] - []

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 \approx 100 Ω - for 100°C \approx 138,5 Ω (Pt100)
for 0°C \approx 1000 Ω - for 100°C \approx 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 tight model)
depending on the probe (Pt100 on terminal block)

Type of fluid.....air and neutral gases

Features of the housing

Housing.....ABS

Fire-proof classificationHB as per UL94

Dimensionssee drawing beside

ProtectionIP 65 (air tight, duct mount and Pt100 on terminal block models)
IP 30 (ambient model)

Cable grip.....for cables Ø 7 mm max.

Weight110 g

Technical specifications

Output.....Pt100 (3 wires) or Pt1000 (2 wires)

Electrical connection.....screw terminal block for cables Ø 1.5 mm² max.

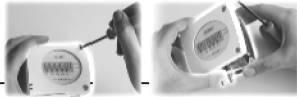
Working temperature.....-20 to +80°C (air tight model)
+10 to +40°C (ambient model)
depending on the probe (Pt100 on terminal block)

Storage temperature.....-10 to +70°C

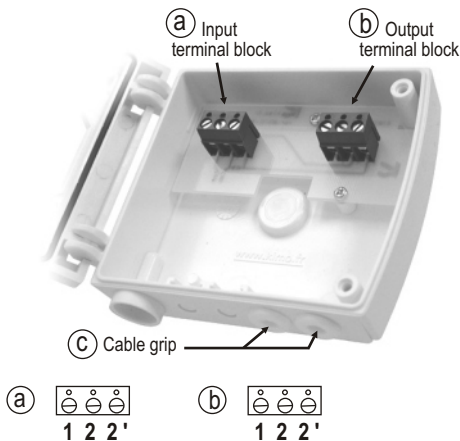
Environmentair and neutral gases

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

Connection

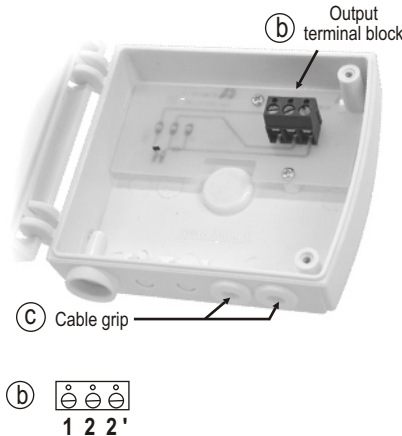


For the model
TM 50-B • Pt100 or Pt1000 input and output on terminal block

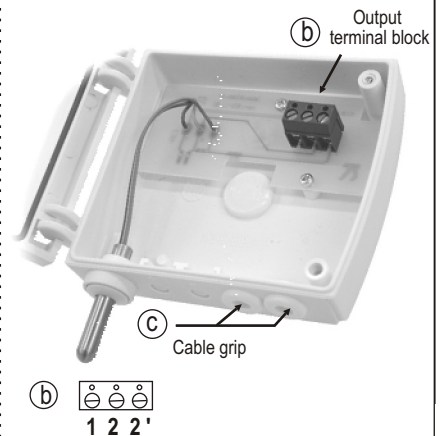


(c) Cable grip : to insert the cable, it is required to slightly cut the rubber.

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



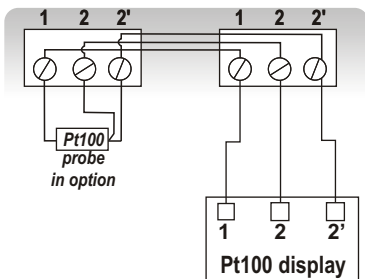
For the model
TM 50-E • Pt100 output on terminal block
TM 51-E • Pt1000 output on terminal block



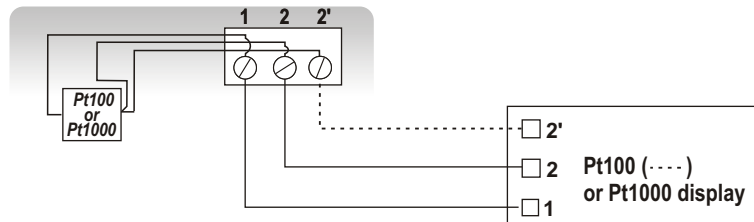
Pt 100 connections

This connection must be made by a qualified technician.

For the model
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.

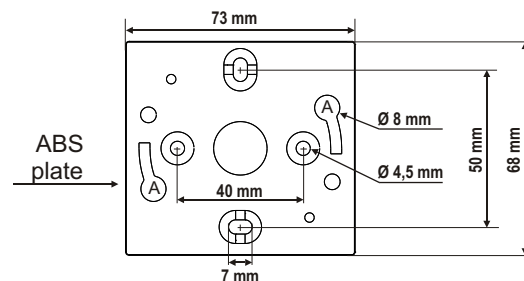
* With Pt1000, the resistance of connection cables has less influence on the measurement than with Pt100. Therefore, Pt1000 cabling is generally made with only 2 wires.

Mounting

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

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.



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

- Pt 100 or Pt1000 temperature probes



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