

Technical Data Sheet

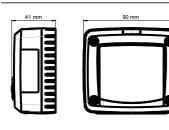
Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

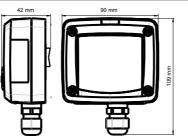
Temperature transmitter with direct connection on terminal block TM 50

KEY POINTS

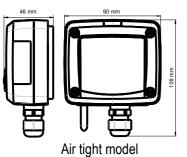
- Transmitter with stainless steel contact tip (according to model)
- Measuring ranges from -20 to +80 °C or from -100 to +400 °C (according to model)
- Connection on terminal block, 2 or 3 wires output
- ABS housing, IP65 or IP20 protection
- "1/4 turn" system mounting with wall-mount plate
- Housing with simplified mounting system

FEATURES OF THE HOUSING

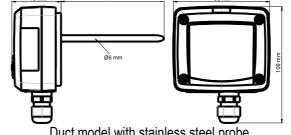




Ambient model



Contact model and model with terminal block



Duct model with stainless steel probe

Material : ABS V0 as per UL94

Protection : IP20 (ambient model), IP65 (air tight, duct, contact and terminal block models)

Cable gland : For cables Ø 8 mm maximum

Weight: 143 g

Operating temperature : from -20 to +80 °C

Storage temperature : from -20 to +80 °C

TECHNICAL FEATURES

Measuring range	From -20 to +80 °C (ambient, air tight, duct and contact models) From -100 to +400 °C (model with terminal block)	
Accuracy*	Pt100	
Type of sensor	Pt100 Class A	
Contact tip (duct and air tight models)	Stainless steel 316L, sans welding from 3/4 to 4/4 hard	
Environment	Air 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

PART NUMBER

• TM50-S : Ambient temperature transmitter type TM50-S. ABS wall housing. Pt100 2 / 3 wires output.

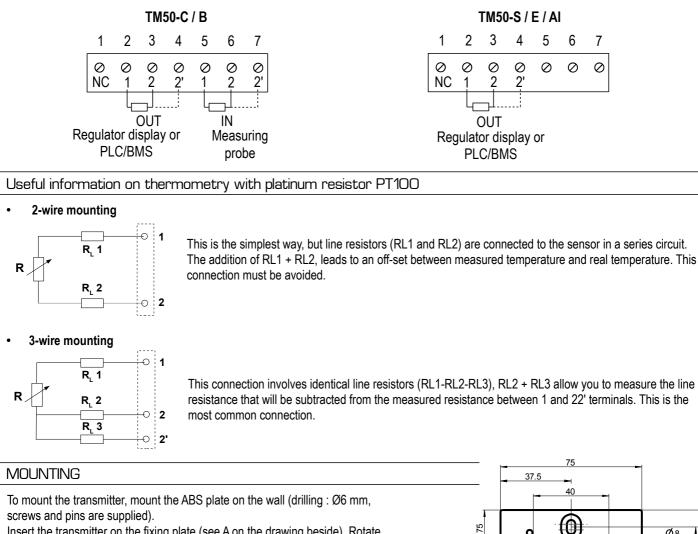
• TM50-E : Air tight temperature transmitter type TM50-E. ABS wall housing. Pt100 2 / 3 wires output.

• TM50-AI : Duct mount temperature transmitter type TM50-AI. ABS wall housing with stainless steel contact tip diameter 6 mm and length 150 mm. Pt100 2 / 3 wires output.

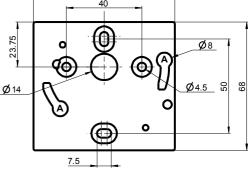
• TM50-C : Contact temperature transmitter type TM50-C. ABS wall housing. Pt100 2 / 3 wires output.

• TM50-B : Temperature transmitter with terminal block type TM50-B. ABS wall housing. Pt100 2 / 3 wires input. Pt100 2 / 3 wires output.





Insert the transmitter on the fixing plate (see A on the drawing beside). Rotate the housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.



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Ambient model has not any fixing plate.

4 fixing holes are inside the back housing. Use them to install the transmitter on the required location.

The contact model is fixed with 2 mounting brackets supplied with the transmitter.

Tolerance of PT100 probes as per IEC 751 (1993) norm

Temperature °C	Tolerances Class A	
	±°C	±°Ohms
-50	0.25	0.1
0	0.15	0.06
100	0.35	0.13

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 AND ACCESSORIES

• Pt100 temperature probes

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