



Thermocouple with aluminium connection head

TBK/ TBKI – TBDK / TBDKI

- Thermocouple type T, J, K or N.
- Measuring range from **-40°C to +1000°C**
- With or without compression fitting

Part numbers stainless steel sheath 400°C max.

To order, just add the codes to complete the part number.

Mounting	Type	Diameter (mm)	Probe length (mm)	Thread	Thread unit
- D	T J K N	6 8 10 *	100 200 500 *	12 14 *	G NPT
TB	-	-	-	-	-

*other dimensions on request

Example : TBD-T-6-100-12-G

Model : Thermocouple type T with connection head. Sheath of 100 mm and 6 mm Ø with compression fitting ½" G. Mounting of multipair wires.

Part numbers mineral insulated sheath 1000°C max.

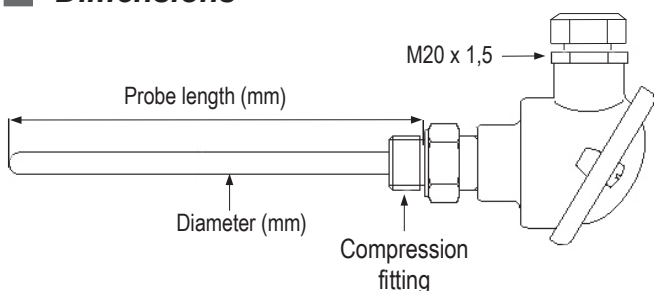
Mounting	Type	Diameter (mm)	Probe length (mm)	Thread	Thread unit
- D	TI JI KI NI	3 4,5 6 8	100 150 300 500 *	12 14 *	G NPT
TB	-	-	-	-	-

*other dimensions on request

Example : TBD-TI-6-100-12-G

Model : Thermocouple type T with connection head. Mineral insulated sheath of 100 mm and 6 mm Ø with compression fitting ½" G. Mounting of multipair wires.

Dimensions



Technical features

Working temperature.....	For TBK category from -40°C to +350°C for Tc T from -40°C to +400°C for J, K and N For TBKI category from -40°C to +350°C for Tc T from -40°C to +750°C for Tc J from -40°C to +1000°C for Tc K and Tc N
Accuracy* for class 1.....	See "Tolerances" table
Type of welding.....	Ungrounded or grounded hot junction Single pair or multipair wires (2 x 2 wires).
Sheath.....	Inconel 600 mineral insulated or 316 L stainless steel for TB-I and TBD-I category 316 L stainless steel probe sheathed magnesium oxide construction for TB and TBD category
Compression fitting.....	316 L stainless steel
Thread.....	With or without compression fitting ½", ¼" G or NPT plug
Electrical connection.....	Ceramic block junction 2 or 4 contacts. Transmitter as option.
Connection head.....	Aluminium alloy (Max. 120°C) Cable gland : M20/150 IP65 protection.
Storage temperature.....	from -20°C to +80°C

Tolerances* of the probe

As per IEC 584-3 norm

TC	Measuring range CLASS 1	TOLERANCE
T	From -40°C to +350°C	From -40°C to +125°C ± 0.5°C From 125°C to +350°C ± 0.004 x T°
J	From -40°C to +750°C	From -40°C to +375°C ± 1.5°C From 375°C to 750°C ± 0.004 x T°
K	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°
N	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°

* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

■ Most common thermocouple types

THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-10% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-30%Rhodium	Platinum- 6%Rhodium	Ext. color + = GREY, - = WHITE

■ Accessories (See Datasheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector



- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters



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