



Thermocouple with aluminium connection head

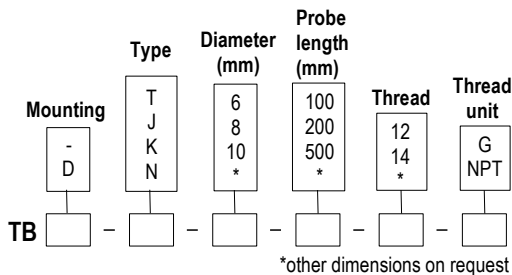
TBK/ TBKI – TBDK / TBDKI

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

TECHNICAL FEATURES

PART NUMBERS STAINLESS STEEL SHEATH 400 °C MAX.

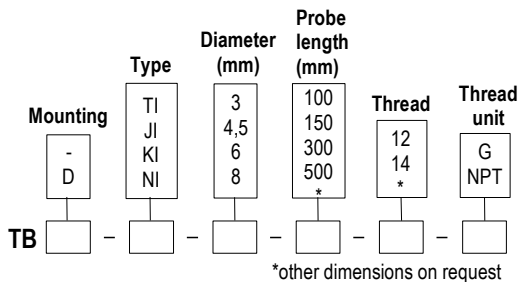
To order, just add the codes to complete the part number.



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.

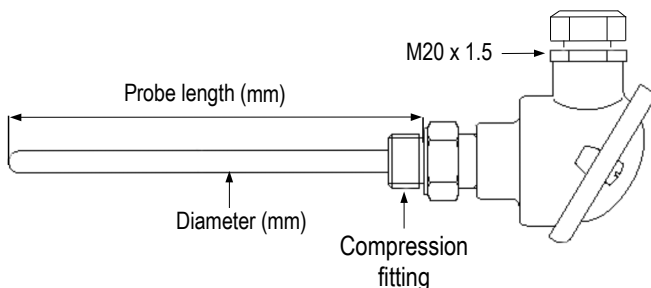
PART NUMBERS MINERAL INSULATED SHEATH 1000 °C MAX.



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



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°

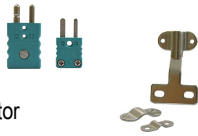
* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

MOST COMMON THERMOCOUPLE TYPES

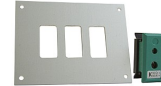
THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOUR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. colour + = GREEN, - = WHITE
T	Copper	Constantan	Ext. colour + = BROWN, - = WHITE
J	Iron	Constantan	Ext. colour + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. colour + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum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