



## Thermocouple with aluminium connection head

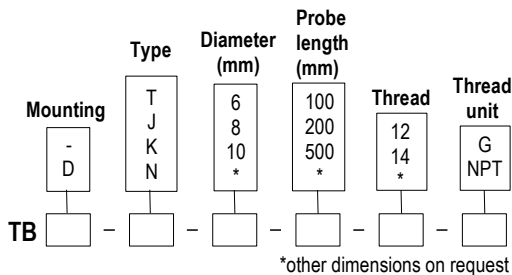
### TBK/ TBKI – TBDK / TBDKI

- 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.

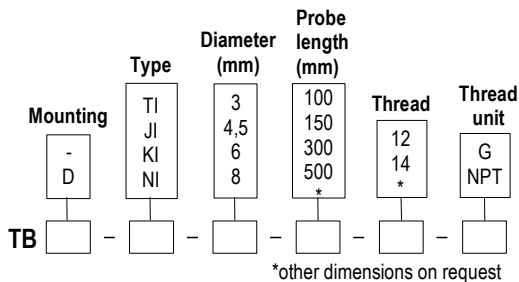
To order, just add the codes to complete the part number.



#### 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.

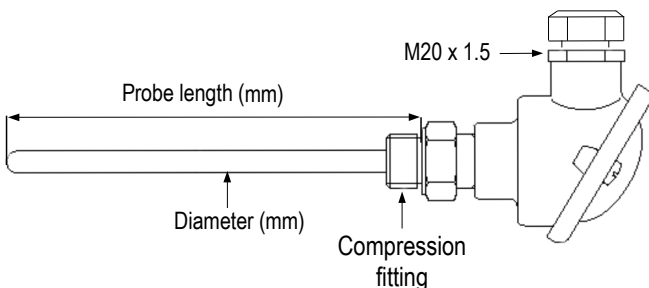
#### PART NUMBERS MINERAL INSULATED SHEATH 1000 °C MAX.



#### 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



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

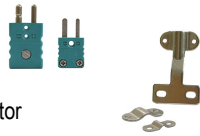
\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

## MOST COMMON THERMOCOUPLE TYPES

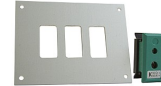
THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOUR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. colour + = GREEN, - = WHITE
T	Copper	Constantan	Ext. colour + = BROWN, - = WHITE
J	Iron	Constantan	Ext. colour + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. colour + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum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