

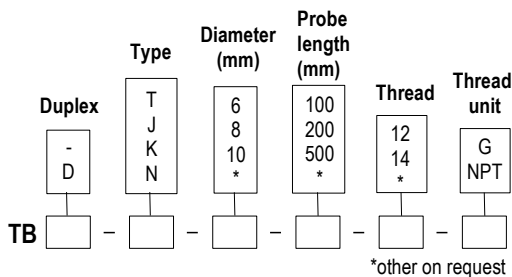


**Thermocouple sensor
with standard connection head
and ambient tip**

TBAJ K

- Thermocouple types T, J, K and N.
- Measuring range from **0 °C to +400 °C**
- With or without compression fitting

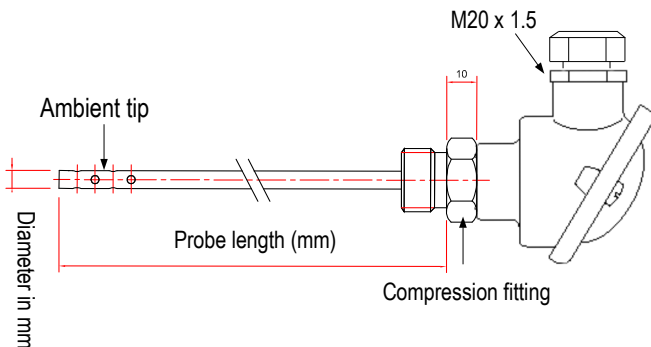
PART NUMBERS



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

Model: Thermocouple T in a sheath of 6 mm Ø and 100 mm length with a ½G compression fitting. Wire multipair mounting.

DIMENSIONS



TRANSMITTER FEATURES

Operating temperature	For <i>TBK</i> type From 0 °C to +350 °C for Tc T From 0 °C to +400 °C for J, K and N
Accuracy* for class 1	See "Tolerances" table
Welding type	Ungrounded hot junction. Singlepair or 2 x 2 multipair.
Sheath	316 L stainless steel. Ambient end of 20 mm. 6 or 8 mm Ø or other on request
Compression fitting	316 L stainless steel
Thread	With or without ½, ¼, Gas or NPT plug
Electrical connection	With or without terminal block Transmitter 4/20mA 0/10V as option
Connection head	Aluminium alloy Cable gland: M20 x 1.5 IP65 protection
Storage temperature	From 0 °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°

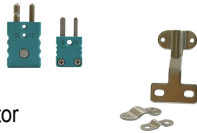
* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

MOST COMMON THERMOCOUPLE TYPES

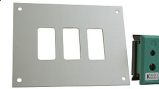
THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum	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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Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

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