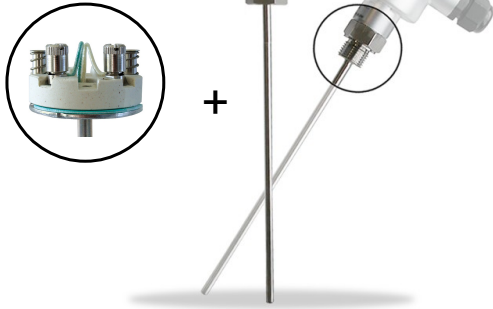


**Thermocouple sensor
with standard connection head
and interchangeable probe system**

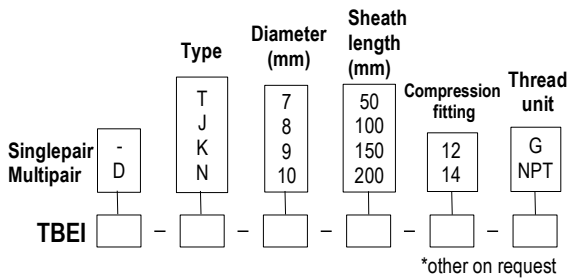
TBEI K – TBEID K

- Thermocouple T, J, K and N.
- Operating temperature from **-40 °C to +400 °C**
- With or without compression fitting



TECHNICAL FEATURES

PART NUMBERS FOR STAINLESS STEEL SHEATH 400 °C MAX.

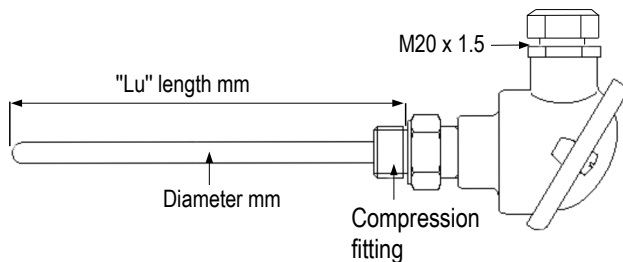


Example: TBEID-T-7-100-12-G

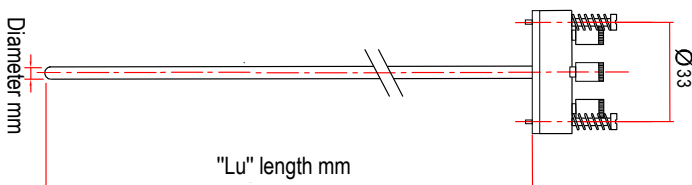
Model: Thermocouple T with a sheath of 100 mm length and 7 mm Ø. Compression fitting ½" G. Measurement insert 4 mm Ø and 140 mm length with multipair wires.

DIMENSIONS

• Probe



• Internal interchangeable probe system



Operating temperature	From -40 °C to +350 °C for Tc T From -40 °C to +400 °C for J, K and N										
Accuracy* for class 1	See "Tolerances" table										
Type of welding	Ungrounded or ungrounded hot junction. Singlepair or 2 x 2 multipair.										
Sheath	316 L stainless steel.										
Interchangeable system	316 L stainless steel. Diameter: according to external sheath Ø										
	<table border="1"> <thead> <tr> <th>Interchangeable system Ø</th> <th>Ø min. of sheath</th> </tr> </thead> <tbody> <tr> <td>4 mm</td> <td>7 mm</td> </tr> <tr> <td>5 mm</td> <td>8 mm</td> </tr> <tr> <td>6 mm</td> <td>9 mm</td> </tr> <tr> <td>7 mm</td> <td>10 mm</td> </tr> </tbody> </table>	Interchangeable system Ø	Ø min. of sheath	4 mm	7 mm	5 mm	8 mm	6 mm	9 mm	7 mm	10 mm
Interchangeable system Ø	Ø min. of sheath										
4 mm	7 mm										
5 mm	8 mm										
6 mm	9 mm										
7 mm	10 mm										
	<i>LU</i> length: length of sheath + 40 mm										
Compression fitting	316 L stainless steel										
Thread	With or without ½", ¼", GaS or NPT plug										
Electrical connection	Terminal block (2 or 4 contacts) Optional transmitter.										
Connection head	Aluminium alloy Cable gland: M20 x 1.5 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.

Thermocouple interchangeable probe system

EI K – EID K

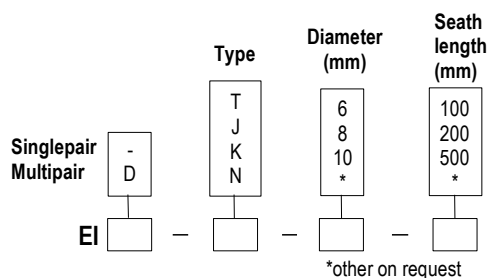


- Thermocouple T, J, K and N.
- Working temperature from **-40 °C to +400 °C**
- With or without compression fitting

TECHNICAL FEATURES

Operating temperature	From -40 °C to +350 °C for Tc T From -40 °C to +400 °C for J, K and N										
Accuracy* for class 1	See "Tolerances" table										
Welding type	Ungrounded or ungrounded hot junction. Singlepair or 2 x 2 multipair.										
Sheath	316 L stainless steel.										
Interchangeable system	316 L stainless steel. Diameter: according to external sheath Ø										
	<table border="1"> <thead> <tr> <th>Interchangeable system Ø4 mm</th> <th>Ø min. of sheath</th> </tr> </thead> <tbody> <tr> <td>5 mm</td> <td>7 mm</td> </tr> <tr> <td>6 mm</td> <td>8 mm</td> </tr> <tr> <td>7 mm</td> <td>9 mm</td> </tr> <tr> <td></td> <td>10 mm</td> </tr> </tbody> </table>	Interchangeable system Ø4 mm	Ø min. of sheath	5 mm	7 mm	6 mm	8 mm	7 mm	9 mm		10 mm
Interchangeable system Ø4 mm	Ø min. of sheath										
5 mm	7 mm										
6 mm	8 mm										
7 mm	9 mm										
	10 mm										
	LU length: length of sheath + 40 mm										
Electrical connection	Terminal block (2 or 4 contacts) Optional transmitter. With or without terminal block DIN Ø 42 mm mounted. 33 mm center.										
Storage temperature	From -20 °C to +80 °C										

PART NUMBERS FOR STAINLESS STEEL SHEATH 400 °C MAX.

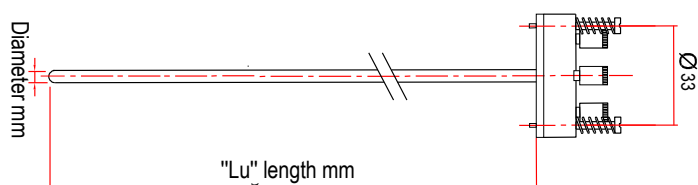


LU length: length of sheath + 40 mm

Example: TBEID-T-7-100-12-G

Model: interchangeable probe system type T with sheath of 100 mm and a 7 mm Ø with a ½ G compression fitting. Multipair wires.

DIMENSIONS



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°
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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°

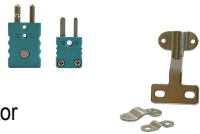
* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

MOST COMMON THERMOCOUPLE TYPES

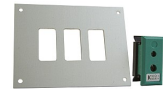
THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum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