KIMO INSTRUMENTS

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Thermocouple temperature sensor with standard head and mounting flange

TBB K / TBB KI - TBBD K / TBBD KI

- Thermocouple types T, J, K and N.
- Measuring range **from -40°C to +1000°C**

Stainless steel contact tip max 400°C part numbers

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

	Duplex	Type	Effective length diameter (mm)	Contact tip Effective length (mm)		Offset diameter	Offset length	Welding
TBB –	- D	T J K N	8 10 12	50 100 150 200 *	Bride PN40* DN25*	6 8 10 12	50 100 150 200	SCM -

*other on request

Example : TBB-T-8-100-PN40DN25-8-50
Model : Thermocouple sensor type T, insulated welding. Stainless steel contact tip with an effective length of 100 mm and 8 mm Ø and with an offset length of 50 mm and 8 mm Ø. Mounting flange type PN40 DN25.
Standard measuring range from -40°C to 350°C.

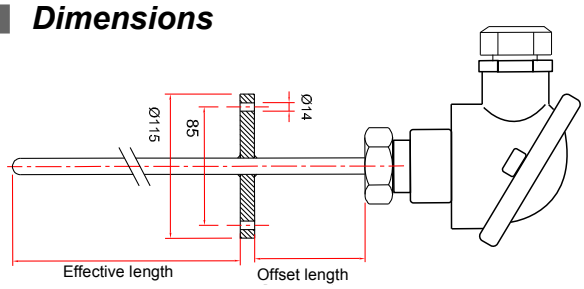
Lined contact tip max 1000°C part numbers

	Duplex	Type	Effective length diameter (mm)	Contact tip Effective length (mm)		Offset diameter	Offset length	Welding
TBB –	- D	JI KI NI	6 8	50 100 150 200	Bride PN40* DN25*	6 8 10 12	50 100 150 200	SCM -

*other on request

Example : TBB-JI-8-100-PN40DN25-8-50
Model : Thermocouple sensor type T, insulated welding. Inconel contact tip with an effective length of 100 mm and 8 mm Ø and with an offset length of 50 mm and 8 mm Ø. Mounting flange type PN40 DN25.
Standard measuring range from -40°C to 400°C.

Dimensions



Technical features

Working temperature.....*For **TBK** series*
from -40°C to +350°C for Tc T
from -40°C to +400°C for J, K et N
*For **TBKI** series*
from -40°C to +750°C for Tc J
from -40°C to +1000°C for Tc K and Tc N

Recommended temperature.....*According to contact tip Ø in inconel 600*
from 0.5 to 1 mm Ø : up to 300°C
from 1.5 to 2 mm Ø: up to 750°C
3 mm Ø : up to 900°C
from 4.5 to 8 mm Ø : up to 1000°C

Accuracy* for class 1.....See "Tolerances" table

Mounting of welding.....Insulated or to earth hot welding
Single pair or 2x2 wires multipair mounting.

Contact tip.....Stainless steel 316 L or lined inconel 600 for I series
Compacted magnesia and stainless steel 316 L for TBB and TBBD series

Compression fitting.....stainless steel 316 L flange welded on contact tip
PN and DN have to be specify according to use
PN 40 DN 25 in standard.

Electrical connection.....Ceramic block junction 2 or 4 contacts.
Transmitter as option.

Connection head.....Aluminium alloy (max 120°C)
Cable gland : M20/150
IP 65 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°abs
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° abs
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°abs
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°abs

* 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.

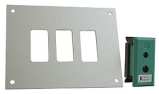
Most common thermocouple types

THERMOCOUPLE TYPE	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Nickel-Chrome 10%	Nickel-Aluminium 5% -Silicium	Ext. color + = GREEN, - = WHITE
T	Copper	Copper-Nickel	Ext. color + = BROWN, - = WHITE
J	Iron	Copper-Nickel	Ext. color + = BLACK, - = WHITE
N	Nickel 84,4% Chromium 14,2% Silicium 1,4%	Nickel 95,6% Silicium 4,4%	Ext. color + = PINK, - = WHITE
R	Platinum-Rhodium 13%	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-Rhodium 10%	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-Rhodium 30%	Platinum-Rhodium 6%	Ext. color + = GREY, - = WHITE

Accessories (See data sheet)

- 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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