



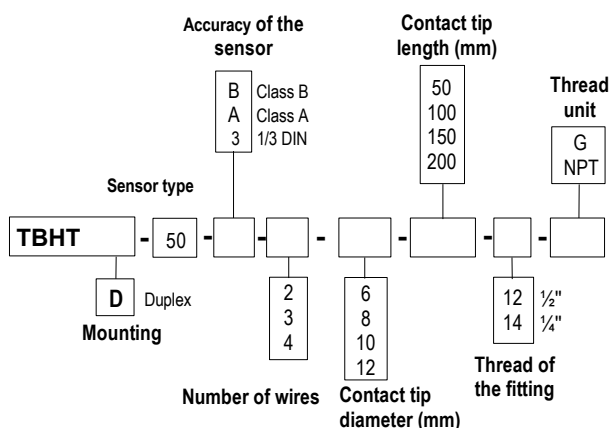
**RTD sensor with standard head
and resistive element
for very high temperature use**

TBHT 50 / TBHTD 50

- Temperature sensor with or without compression fitting and stainless steel contact tip.
- Measuring range (According to reference): **from -50 to +550 °C**
- Mounting of wire: **single pair** (2,3 or 4 wires).
multipair (4 wires).

PART NUMBERS

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

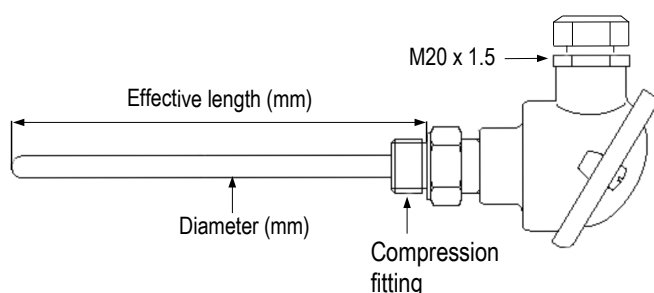


* Other dimension on request

Example: TBHT-50-B-3-8-100-12G.

Model: PT 100 temperature probe, class B, 3 wires diameter 8 mm and length including thread 100 mm.
With compression fitting 1/2" G.
Standard measuring range from -50 °C to + 550 °C.

DIMENSIONS



TECHNICAL FEATURES

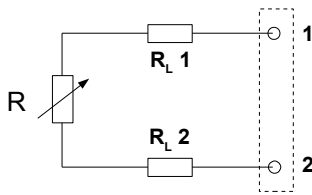
Working temperature (According to reference)	From -50 °C to +550 °C
Accuracy	PT100: see "Tolerances" table
Type of sensor	PT100: Class B, Class A, 1/3 DIN As per DIN IEC751
Mounting of wire	Single pair 2, 3 or 4 wires Multi pair only 2 x 2 wires
Storage temperature	From -20 °C to +80 °C
Contact tip	316 L stainless steel, no welding, 3/4 to 4/4 hard
Compression fitting	316 L stainless steel
Thread	With or without, 1/4, 1/2, male Gas or NPT plug (other tread on request)
Electrical connection	With or without terminal block Transmitter 4/20 mA 0/10 V as option

TOLERANCE OF PT100 PROBES

Norm as per IEC 751 (1993).

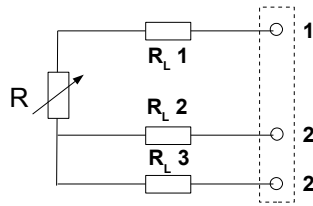
Temp °C	Tolerances					
	Class B		Class A		1/3 DIN	
	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms
-100	0.8	0.32	0.35	0.14	0.27	0.11
-50	0.55	0.22	0.25	0.1	0.19	0.08
0	0.3	0.12	0.15	0.06	0.1	0.04
100	0.8	0.3	0.35	0.13	0.27	0.1
200	1.3	0.48	0.55	0.2	0.44	0.16
300	1.8	0.64	0.75	0.27	0.6	0.21
400	2.3	0.79	0.95	0.33	0.77	0.26

• 2-wire connection



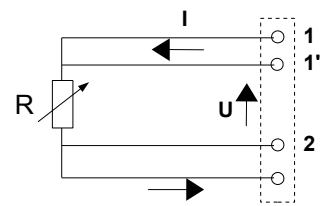
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be subtracted from the measured resistance between 1 and 22' terminals. This is the most common connection.

• 4-wire connection



Regulated current is going through 11' and 22' terminals and the measurement is made at the sensor terminals, so none of the line resistors are taken into account. This is the most accurate connection.

ACCESORIES (SEE DATASHEET)

- Transmitter output 4/20 mA or 0/10 V
- Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- Stainless steel compression fitting
- PTFE or stainless steel ferrule for compression fittings



- Sleeve to weld for food industry
- Stainless steel union fitting
- 1/2" Gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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