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CE



Pt100 temperature transmitter **CO-P**

Description

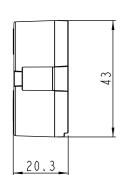
C0-P transmitter is a **Pt100** temperature transmitter into a **4-20 mA** (or **20-4 mA**) electric signal at adjustable microprocessor.

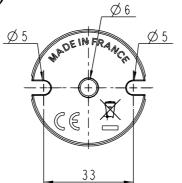
It allows to convert variations of temperature reported by a standard Pt100 sensor (100Ω at 0 °C) for a measuring range going from -200 to +850 °C into an electric linear signal at 2 wires in the 4-20 mA range.

Configuration of the transmitter is simply made through a configuration button. It is also possible to use the **LCC101** configuration software to configure the transmitter. A led warms when an alarm situation appears (out of range or short-circuit).

The transmitter is protected against inversions of polarity and has been designed to be placed in **DIN B** head probe.

Dimensions (mm)





■ Output current with relation to temperature (on range from 0 to +100 °C)

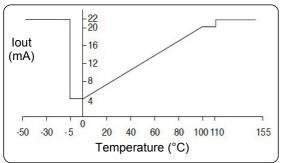


Fig.1

Technical features of the transmitter

(at 20 °C and for a power supply voltage of 24 Vdc)

• In	put
------	-----

input	
Sensor	Pt100 (100Ω at 0 °C)
Mounting of the element	2 or 3 wires
Linearization	EN60751, IEC 751
Current in the sensor	<1 mA
Measuring range	from -200 to +850 °C
Range by default	from 0 to 100 °C
Minimum measuring range	25 °C
Influence of connection wires	negligible with coupled wires
Speed conversion	2 measurements per second
Accuracy	from -100 to + 500 °C : ±0.1 °C ±0.1% of reading
	beyond: ±0.2 °C ±0.2% of reading
Sensitivity to variations of feeding voltage	0.01 °C/°C
Sensitivity to variations of voltage	
supply	
Storage temperature	
Working temperature	from 0 to +70 °C

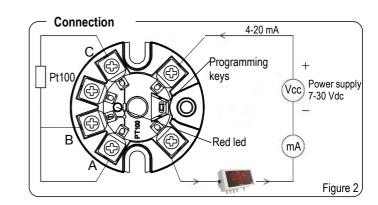
Output

Output	
Output	4-20 mA (or 20-4 mA), 22 mA in case of programming error or temperature out of range* (fig1)
Resolution	2 µA
Power supply voltage	7-30 Vdc (protection against inversions of polarity)
Load resistance	$R_{Lmax} = \frac{Vdc - 7}{0.022}$
	=>R $_{Lmax}$ = 770 Ω @ Vcc = 24 Vdc
Red led	lights up during the programming phase and when the measured

* If the measured temperature T is outside the set range T1...T2 (T1<T2), the transmitter maintains 4 mA for T<T1 and 20 mA for T>T2 for a dead band of 5 °C before going into error status at 22 mA.

temperature is outside the set range

Figure 2 shows the wiring diagram of the converter in the current loop. To get a better accuracy, use 3 wires with the same diameter to plug to the Pt100, this allows to guarantee the same impedance to each branch. A device can be introduced in the current loop such as a display, a controller or a data logger.



Programming

It is possible to set different measuring ranges using the following accessories:

- (1) Continuous power source 7-30 Vdc
- (2) Precision ammeter with minimum range of 0 to 25 mA
- 3 Pt100 calibrator

Procedure:

 Connect the converter to set to the power supply, to the ammeter and to the Pt100 calibrator (see figure 2). Then make a long press on the configuration button. The led blinks twice during the push. When blinks become faster, release the button: programming mode is active.

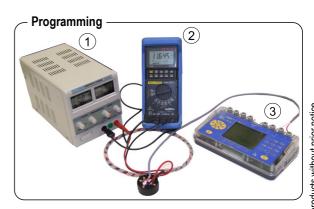
a - Configuration of T1 point

- Led blinks 1 time at regular intervals : set the required temperature for the 4 mA output.
- Validate instructions with a brief press on the programming key.
 Led stays on then blinks 4 times quickly: temperature for 4 mA output is recorded.

b - Configuration of T2 point

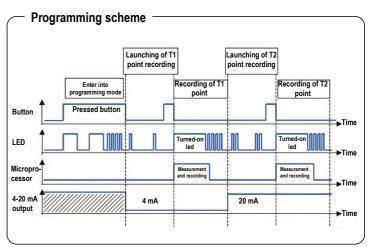
- Led blinks 2 times faster at regular intervals : set the required temperature for 20 mA output.
- Validate instructions with a brief press on the programming key.
 Led stays on then blinks 4 times quickly: temperature for 20 mA output is recorded.

In case error whilst programming, if temperature is out of range or in alarm situation, led blinks 6 times quickly.



NOTE

Programming of the temperature range can be made using resistances of precision with a fixed value which simulate values of Pt100 sensor (see table below of Pt100 values).



Pt100 values in ohms compared to measured temperature

Temp °C	Pt100 value (Ω)
-200	18.52
-150	39.72
-100	60.26
-50	80.31
0	100.00
50	119.40
100	138.51
150	175.86

Temp °C	Pt100 value (Ω)
200	175.86
250	194.10
300	212.05
350	229.72
400	247.09
450	264.18
500	280.98
550	297.49

Temp °C	Pt100 value (Ω)
600	313.71
650	329.64
700	345.28
750	360.64
800	375.70
850	390.48

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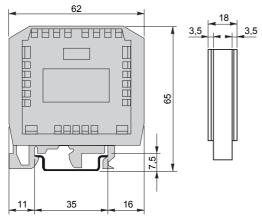


Description

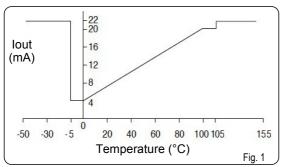
CORD-P transmitter is a **Pt100** temperature transmitter into a **4-20** mA (or 20-4 mA) electrical signal at adjustable microprocessor. It allows to convert variations of temperature reported by a standard Pt100 sensor (100 Ω at 0 °C) for a measuring range going from -200 to +850 °C into an electrical linear signal at 2 wires in the **4-20 mA** range.

Configuration of the transmitter is simply made through a configuration button. It is also possible to use the **LCC101** configuration software to configure the transmitter. A led warms when an alarm situation appears (out of range or short-circuit). The transmitter is protected against inversions of polarity.

Dimensions (mm)



Output current with relation to temperature (on range from 0 to +100 °C)



DIN rail Pt100 temperature transmitter **CORD-P**

■ Technical features of the transmitter

(at 20 °C and for a power supply voltage of 24 Vdc)

•	
Sensor	Pt100 (100Ω at 0 °C)
Mounting of the element	2 or 3 wires
Linearization	EN60751, IEC 751
Current in the sensor	<1 mA
Measuring range	from -200 to +850 °C
Range by default	from 0 to +100 °C
Minimum measuring range	25 °C
Influence of connection wires	negligible with coupled wires
Speed conversion	2 measurements per second
Accuracy	from -100 to +500 °C : ± 0.1 °C ± 0.1 % of reading.
	Beyond: ±0.2 °C ±0.2% of reading
Sensitivity to variations of ambier temperature	
Sensitivity to variations of voltage supply	
очры,	(FC : full scale)
Storage temperature	,
Working temperature	

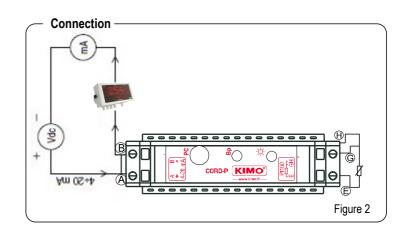
Output

Output	4-20 mA (or 20-4 mA), 22 mA in case of programming error or temperature out of range* (fig1)
Resolution	2 µA
Power supply voltage	7-30 VDC (protection against inversions of polarity)
Load resistance	$R_{Lmax} = \frac{Vdc - 7}{0,022}$
	=>R $_{Lmax}$ = 770 Ω @ Vdc = 24 Vdc
Red led	lights up during the programming

* If the measured temperature T is outside the set range T1...T2 (T1<T2), the transmitter maintains 4 mA for T<T1 and 20 mA for T>T2 for a dead band of 5 °C before going into error status at 22 mA.

phase and when the measured temperature is outside the set range.

Figure 2 shows the wiring diagram of the transmitter in the current loop. To get a better accuracy, use 3 wires with the same section to plug to the Pt100, this allows to guarantee the same impedance to each branch. A device can be introduced in the current loop such as a display, a controller or a data logger.



Configuration

It is possible to set different measuring ranges using the following accessories:

- (1) Continuous power source 7-30 Vdc
- (2) Precision ammeter with minimum range of 0 to 25 mA
- 3 Pt100 calibrator

Procedure:

 Connect the converter to set to the power supply, to the ammeter and to the Pt100 calibrator (see figure 2). then make a long press on the configuration button. The led blinks twice during the push. When the blinks become faster, release the button: programming mode is active.

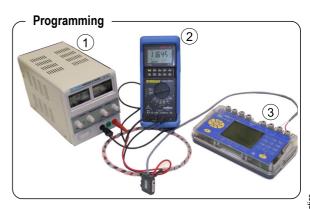
a - Configuration of T1 point

- Led blinks one time at regular intevals: set the required temperature for the 4 mA output.
- Validate instructions with a brief press on the programming key. Led stays on then blinks 4 times quickly: temperature for 4 mA output is recorded.

b - Configuration of T2 point

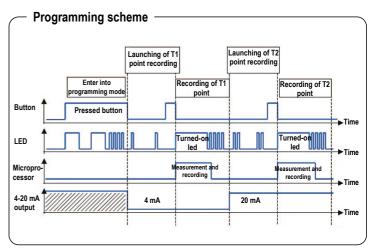
- Led blinks 2 times faster at regular intervals : set the required temperature for 20 mA output.
- Validate instructions with a brief press on the programming key. Led stays on then blinks 4 times quickly: temperature for 20 mA output is recorded.

In case of error whilst programming, if temperature is out of range or in alarm situation, led blinks 6 times quickly.



NOTE

Programming of the temperature range can be made using resistances of precision with a fixed value which simulates values of Pt100 sensor (see table below of Pt100 values).



Pt100 values in ohms compared to measured temperature

Temp °C	Valeur Pt100 (Ω)
-200	18.52
-150	39.72
-100	60.26
-50	80.31
0	100.00
50	119.40
100	138.51
150	175.86

•	\
Temp °C	Valeur Pt100 (Ω)
200	175.86
250	194.10
300	212.05
350	229.72
400	247.09
450	264.18
500	280.98
550	297.49

)
Temp °C	Valeur Pt100 (Ω)
600	313.71
650	329.64
700	345.28
750	360.64
800	375.70
850	390.48

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Temperature sensor PT 100 with grip handle

Special Fermenting room

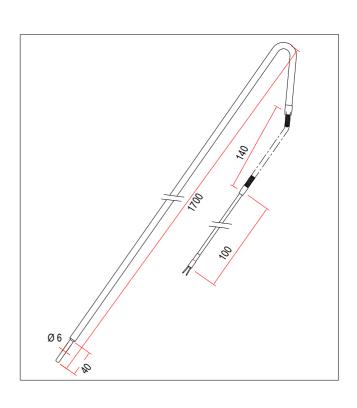
CROS - R - 1700



- Class A Pt 100
- Measuring range from -50°C to +250°C
- Length of 1700 mm, others on request
- Stainless steel protection sheath
- · Stainless steel grip handle
- Tip with shrink for a very fast response time
- Probes compatible with KISTOCK temperature dataloggers and portable thermometers

Special probes **Fermenting room** allow to measure temperature in the specific conditions of wine-making process.





Description

Grip handle



Reinforced cable output with flexible Shielded Teflon cable

Shrink



Protection sheath in foodindustry stainless steel 316 L Ø 10 mm, shrink in 6 mm

Specifications

Probe	Length	Range	Accuracy	Compatible with
CROS-R-1700	1700 mm	from -50 to +250°C	±0.4% of reading* or ±0.3°C	Portable thermometers: TR100

^{*}All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation. The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the bigger value is considered.

Optional

- Protection cover IP65.
- Calibration certificate.
- Portable thermometers .
- Temperature datalogger

With KISTOCK temperature datalogger



With portable thermometers



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+400°C

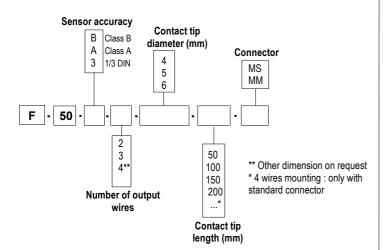
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Temperature probe with **resistive element** and output on **DIN connector**

F 50 - FD 50

■ Part numbers

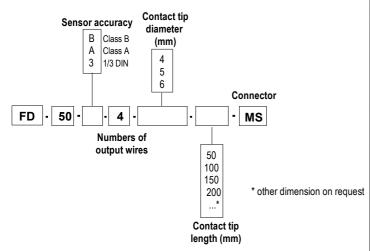
• F 50



Example: F50-B-2-4-50-MM

Model: Temperature probe Class B, 2 wires, contact tip diameter 4 mm and 50 mm length with connector type MM. Measuring range from -50 to +400 °C.

• FD 50



Example: FD50-B-4-4-50-MS

Model: Temperature probe Class B, 4 wires, contact tip diameter 4 mm and 50 mm length with connector type MS. **Measuring range** from -50 to +400 °C.

Probe features

- Temperature probe mounted on male connector
- Measuring range from -50°C to +400°C
- Rigid contact tip

Technical features



4 wires mounting only with standard connector

Connector.....miniature 2 and 3 flat pins in copper standard 2, 3 and 4 flat pins in copper temperature max: 200 °C

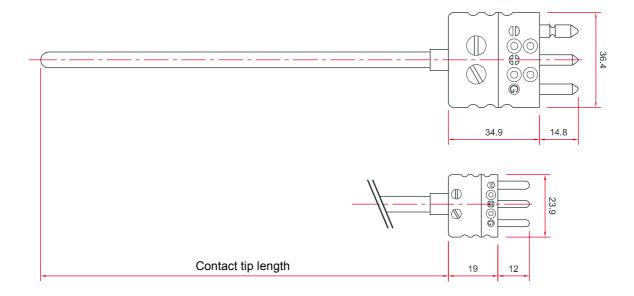
Tolerances* of Pt100 and Pt1000 probes As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

	Tolerances					
Temp °C	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

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

^{*} 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.

Dimensions



Accessories (See data sheet)

- Transmitter output 4-20 mA or 0/10V
- Wall mounting support
- Stainless steel mounting brackets
- 1/4, 1/2 gas screw nut
- Sliding connection
- Teflon or stainless. steel ferrule for compression fitting



- Sleeve to weld for food industry (with ½" G female)
- Stainless steel junction fitting
- ½ gas or NPT thread cuff Thermo-conducting silicone grease
- Calibration certificate
 Thermowell



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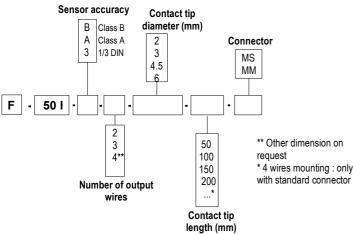


Temperature probe at resistive element with collapsible contact tip and output on Din connector

F 50 I – FD 50 I

Part numbers

• F 50 I



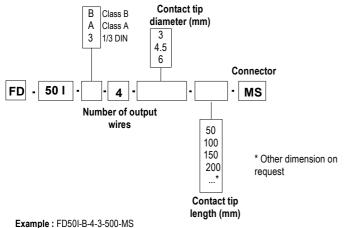
Example: F50I-B-2-3-500-MM

Model: Temperature sensor class B, 2 wires, contact tip of 3 mm of diameter and 500 mm of length with connector type MM.

Measuring range : from -50 to + 550 °C

• FD 50 I

Sensor accuracy



Model: Temperature sensor class B, 4 wires, contact tip of 3mm of diameter and 500 mm of length with connector type MS.

Measuring range : from -50 to + 550 °C

Probe features

- Temperature sensor mounted on male connector
- Measuring range from -50°C to +550°C
- · Collapsible contact tip

Technical features

Operating temperature.....from -50°C to +550°C

Accuracy.....See "Tolerances" table

Sensor type......PT100 or PT1000 : Class B, Class A,

1/3 DIN as per DIN IEC751

Storage temperature.....from -20°C to +80°C

Contact tip.....lined collapsible (semi-rigid)

Stainless steel 316 L without welding



Non-collapsible zone on 25 mm at the end of the contact tip

Mounting......2, 3 or 4 wires for F 50 I 4 wires for FD 50 I

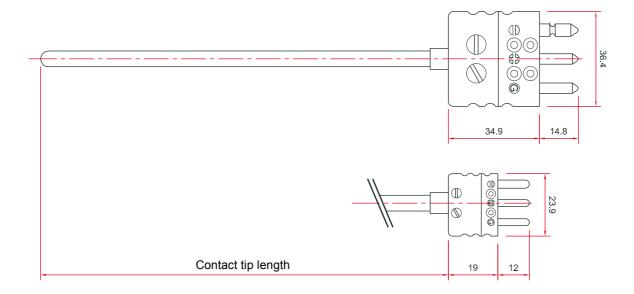


4 wires mounting only with a standard connector

Connector.....miniature 2 and 3 copper flat pins standard 2, 3 and 4 copper round pins

Temperature max. : 200 °C

Dimensions



Tolerances* of Pt100 and Pt1000 probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

	Tolerances							
Temp °C	Class B		Class A		1/3 DIN			
	± °C	± Ohms	± ℃	± 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		

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

Accessories (See data sheet)

- Transmitter output 4-20 mA or 0/10V
- · Wall mounting support
- · Stainless steel mounting brackets
- 1/4, 1/2 gas screw nut
- Sliding connection
- Teflon or stainless. steel ferrule for compression fitting



- Sleeve to weld for food industry (with ½" G female)
- · Stainless steel junction fitting
- 1/2 gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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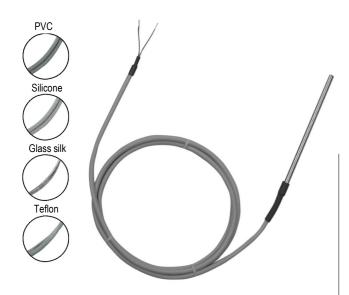
Ref. FT - F501-FD501 - 02/09 A - RCS (24) Périgueux B349 282 095 Non-contractual document - We reserve the right to modify the characteristics of our products without prior notice.

^{*} 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.



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Probe features

- Stainless steel temperature probes with conductive cable.
- Measuring range (according to cable)

from -50°C to +400°C (PT100 and PT1000). from -20°C to +120°C (CTN).

- 2 wires for NTC and PT1000 outputs.
- 3 or 4 wires for PT100 output.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Temperature probe with cable

SF 50 / SFD 50

Transmitter features

Working temperature.....from -50 $^{\circ}$ C to +400 $^{\circ}$ C (PT100 and PT1000)

(According to cable) from -20°C to +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

NTC : see "Tolerances" table

Type of sensor.....PT100 or PT1000 : class B, class A

and 1/10 DIN as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3.695K ±1%

Storage temperature.....from -20°C to +80°C

Working temperature of the cable

PVC : from -40°C to +120°C
Silicone : from -50°C to +180°C
Teflon (PFA) : from -50°C to +260°C

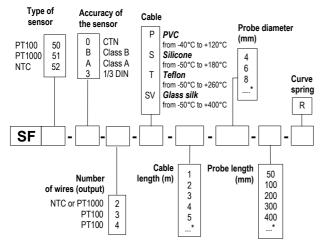
Glass silk with stainless steel sheet : from -50°C to +400°C

Probe......316 L stainless steel, watertight crimping with

heat shrink tubing. (Except glass silk cable with standard mounting on stainless steel duct)

Part numbers

SF 50 – Single pair probe -

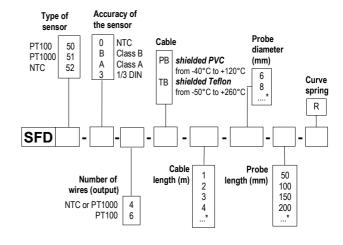


^{*} Other length available on request

Example : SF51-B-2-P-1-4-100

Model: Temperature probe PT1000 Class B, 2 wires, PVC cable of 1 m length. Stainless steel protective sheath 4 mm \varnothing , length 100 mm without curve spring. **Measuring range from -40 to +120°C.**

SFD 50 – Multipair Probe -



* Other length available on request

Example: SFD51-B-4-PB-1-6-100

Model: Temperature probe PT1000 Class B, 4 wires, shielded PVC cable of 1 m length. Stainless steel protective sheath 4 mm Ø, length 100 mm without curve spring. Measuring range from -40 to +120°C.

^{*}all accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

■ Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Temp °C	Tolerances						
	CI	ass B	CI	ass 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	

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

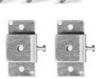
■ Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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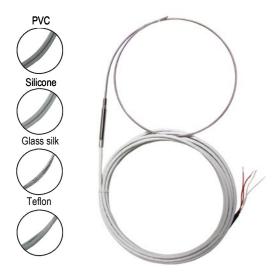
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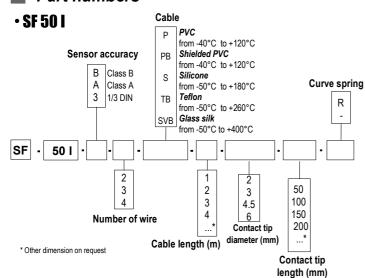
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Cable temperature probe at resistive element and collapsible contact tip

SF 50 I - SFD 50 I

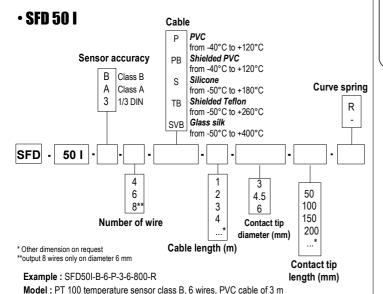
Part numbers



Example: SF50I-B-4-P-3-2-500-R

 $\begin{tabular}{ll} \textbf{Model}: PT 100 temperature sensor class B, 4 wires, PVC cable of 3 m length. Contact tip of 2 mm diameter and 500 mm of length with curve spring. \end{tabular}$

Measuring range from -50 to + 550 °C



length. Contact tip of 6 mm diameter and 800 mm length with curve spring

Measuring range from -50 to +550 $^{\circ}\text{C}$

Probe features

- Temperature probe mounted on conductor cable with contact tip
- Measuring range from -50°C to +550°C
- Output 2, 3 or 4 wires for SF 50 I
 4, 6 or 8 wires for SFD 50 I

Technical features



Non-collapsible zone on 25 mm at the end of the contact tip

Stainless steel 316 L without welding

Glass silk: from -50 to +400 °C

Tolerance* of PT100 probes.

Norms as per IEC 751 (1993).

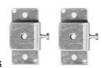
T 10	Tolerances						
Temp °C	Class B		Class A		1/3 DIN		
	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms	
-100	0.8	0.32	0.35	0.14	0.27	0.11	
-50	0.55	0.22	0.25	0.1	0.19	0.08	
0	0.3	0.12	0.15	0.06	0.1	0.04	
100	0.8	0.3	0.35	0.13	0.27	0.1	
200	1.3	0.48	0.55	0.2	0.44	0.16	
300	1.8	0.64	0.75	0.27	0.6	0.21	
400	2.3	0.79	0.95	0.33	0.77	0.26	

^{*}all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- Stainless steel compression fitting
- Teflon 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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Part numbers

Resistance type Diameter / probe length (mm) PT100 Number of wires 51 PT1000 (output) 5/25 PT1000 6/30 PT100 PT100 3 4 8/15 SFBA SV Cable length D Duplex Sensor accuracy **Bavonet** E10 E12 base of 10 mm Class B base of 12 mm A 3 Class A base of 15 mm 3 4 ...* 1/3 DIN

Example: SFBA51-B-2-SV-1-630-E12

Model: Pt 1000 bayonet temperature probe, Class B, 2-wire, silk glass cable 1m long. Stainless steel probe Ø 6 mm and 30mm length.

Bayonet for 12mm thread.

Measuring range from -50 to +400°C.

Wire temperature probe with resistive element and bayonet

SFBA 50 / SFBAD 50

Probe features

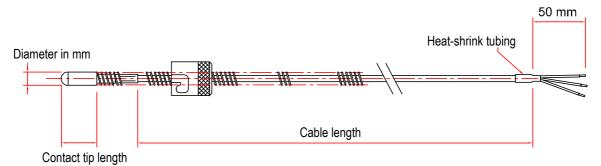
- Temperature probe mounted on conductive cable, with stainless steel contact tip and bayonet probe.
- Measuring ranges (according to cable):
 from -50°C to +400°C (PT100 and PT1000).
- For other resistances (PT25, PT50, PT500, PT200 or NI), please contact us

Technical features

Working temperature	from -50°C to +400°C
Accuracy *	PT100 or PT1000 : see "Tolerances" table
Sensor type	PT100 or PT1000 : class B, class A, 1/3 DIN, as per DIN IEC751
Storage temperature	20°C to +80°C
Probe	316 L stainless steel. 5/25 : Ø 5 mm and length 25 mm 6/30 : Ø 6 mm and length 30 mm 8/15 : Ø 8 mm and length 15 mm
Cable	output on glass silk cable, stainless steel armoured. 2, 3 or 4 conductors 0,22 mm ² . Temperature range: from -50 to +400°C
Bayonet	bayonet connection (2 pins) nickel brass, for Ø 10, 12 or 14 mm thread to screw on 200mm spring

^{*} 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.

Probe dimensions



^{*} Other dimension available on request

■ Tolerances* of Pt100 and Pt1000 resistive probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms

T %	Tolerances						
Temp °C	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	

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

Tolerances* of NTC resistive probe

Temperature range in °C	Tolerances °C
From -20°C to 0°C	± 0,5°C
From 0°C to +70°C	± 0,2 °C
From +70°C to +100°C	± 0,5 °C

^{*} 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.

Accessories (see datasheet)

- 4-20 mA or 0/10V output transmitter
- Wall fixing support
- · Stainless steel mounting brackets
- 1/4, 1/2 gas screw net
- Compression fitting
- Teflon or stainless steel ferrule for compression fittings





- \bullet Sleeve to weld for food industry (with $1\!\!/\!\!2"$ G female)
- Stainless steel union fitting
- 1/2 gas or NPT thread cut
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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Probe features

- Stainless steel temperature probes with conductive cable.
- · Measuring range (according to cable):

from -80°C to +50°C (PT100 and PT1000)

- 2 wires (SFBT) or 4 wires (SFBTD) for PT1000
- 3 4 wires (SFBT) or 6 wires (SFBTD) for PT100.

CE

RTD sensor with cable for very low temperature

SFBT 50 / SFBTD 50

Technical features

Working temperature	from -80°C to +50°C (PT100 and PT1000)
Accuracy *	PT100 or PT1000 : see "Tolerances" table
Type of sensor	PT100 : Class B, Class A.
	PT1000 : Class B only.
Storage temperature	from -20°C to +80°C
Working temperature	
of the cable	Teflon (PFA) : from -50°C to +260°C
Mounting	4 mm Ø probe for 2 or 3 wires only
	6 wires mounting from 6 mm Ø.
Sheath	316 L stainless steel, watertight crimping.
	Curve spring as option.

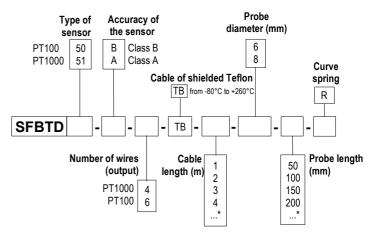
*All the accuracies indicated in this technical datasheet were stated in laboratories conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

Part numbers

· SFBT 50 - Single pair -

Probe Accuracy of Type of the sensor diameter (mm) sensor PT100 Class B 6 PT1000 51 Class A Curve spring Teflon cable from -80°C to +260°C R **SFBT** Number Cable Probe length 50 of wires (output) length(m) (mm) 100 2 PT1000 3 150 PT100 200 4 PT100

• SFBTD 50 - Multipair -



^{*} Other lengths available on request

Example: SFBT51-B-2-T-1-4-100-12

Model : Temperature probe PT1000 Class B, 2 wires, Teflon cable of 1 m length. Stainless steel protective sheath 4 mm Ø, length 100 mm, without curve spring. **Measuring range from -80 to +50°C.**

Example: SFBTD51-B-4-TB-1-6-100

Model: Temperature probe PT1000 Classe B, 4 wires, cable of 1m length in shielded Teflon. Stainless steel protective sheath 6 mm Ø, length 100 mm, without curve spring. **Measuring range from -80 to +50°C.**

^{*} Other lengths available on request

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances					
Temp °C	CI	ass B	Class A			
	± °C	± Ohms	± °C	± Ohms		
-100	0,8	0,32	0,35	0,14		
-50	0,55	0,22	0,25	0,1		
0	0,3	0,12	0,15	0,06		
100	0,8	0,3	0,35	0,13		
200	1,3	0,48	0,55	0,2		
300	1,8	0,64	0,75	0,27		
400	2,3	0,79	0,95	0,33		

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- Stainless steel sliding connection
- · Teflon or stainless steel ferrule for compression fitting



- · Sleeve to weld for food industry
- Stainless steel union fitting
- 1/2" Gas or NPT thread cuff
- · Thermo-conducting silicone grease
- Calibration certificate
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Cable temperature probe at angled **resistive element** with or without **fitting**

CE



Type SFC 50

SFC 50 - SFCD 50 - SFCR 50 - SFCRD 50

General features

- Temperature probe mounted on conductive cables with angled stainless steel contact tip, with or without stainless steel fitting
- Measuring ranges (according to cable) :

from -50°C to +400°C (PT100 and PT1000). from -20°C to +120°C (NTC).

- 2 wires output (SFC, SFCR) or 4 wires output (SFCD, SFCRD) for NTC and PT1000.
- 3-4 wires output (SFC, SFCR) or 6 wires output (SFCD, SFCRD) for PT100.
- For other resistance types (PT25, PT50, PT500, PT200 or NI), please contact us.

Technical features

Operating temperature......from -50°C to +400°C (PT100 and PT1000)

(according to cable) from -20°C to +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Sensor type.....PT100 or PT1000 : class B, class A, 1/3 DIN,

as per DIN IEC751

NTC : resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3,695K ±1%

Storage temperature....-20°C to +80°C

Operating temperature

of cable......PVC : from -40°C to +120°C (Shielded on request)

Silicone: from -50°C to +180°C

Teflon (PFA) : from -50°C to +260°C (Shielded on request)
Silk glass with stainless steel braid : from -50°C to +400°C

Probe and connection......316 L stainless steel

Bent at 90° (other on request)

Watertight crimping with heat-shrink tubing

(except for silk glass with standard mounting on stainless steel duct)

Curve spring available as option

Connection mounting......On L2 length (see drawing): 12 or 14 corresponding to ½' G and ¼' G connections

On L1 length (see drawing): 12L1 or 14L1 corresponding to ½' G and ¼' G connections

⚠

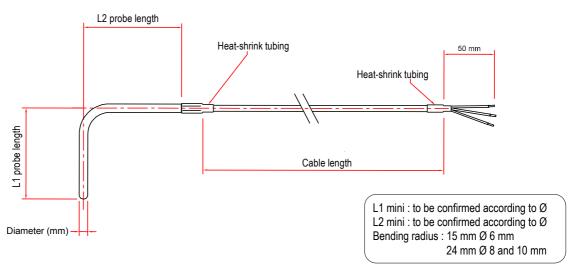
For Ø 4mm, the 4 wires mounting is not available

SFC 50 & SFCD 50

Angled cable probe in simple pair or multipair mounting

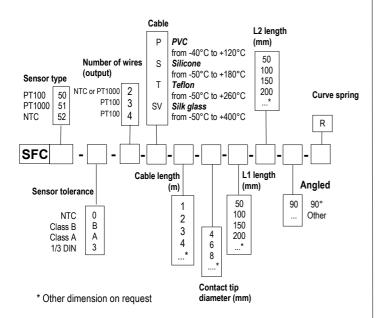


Dimensions



Part numbers

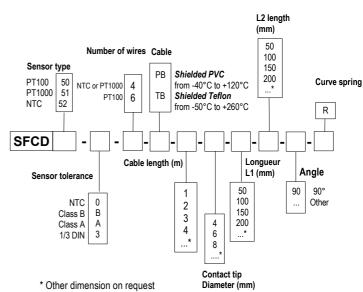
• SFC 50 - Single pair probe



Example: SFC-51-B-2-P-1-4-100-100-90-R

Model : PT1000 temperature probe class B, 2 wires, PVC cable of 1m length. Stainless steel contact tip \emptyset 4 mm angled at 90° and L1 and L2 lengths of 100 mm, with curve spring. **Measuring range from -40 to +120°C.**

• SFCD 50 - Multipair probe -



Example: SFCD-51-B-4-PB-1-6-100-100-90-R

Model: PT1000 temperature probe class B, 4 wires, shielded PVC cable of 1m length. Stainless steel contact tip \emptyset 6 mm angled at 90° and L1 and L2 lengths of 100 mm, with curve spring. Measuring range from -40 to +120°C.

SFCR 50 & SFCRD 50

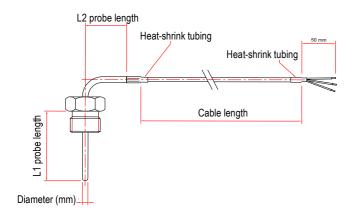
Angled cable probe with fitting in simple pair or multipair mounting



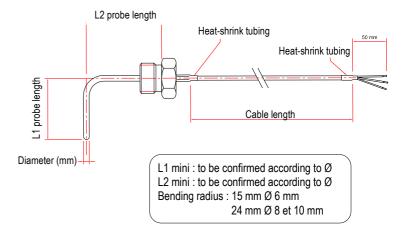


Dimensions

• With fitting on L1

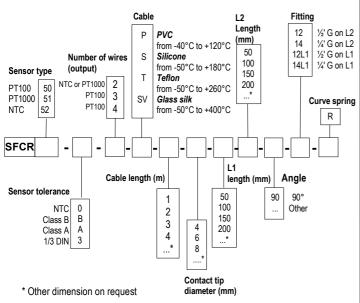


· With fitting on L2



Part numbers

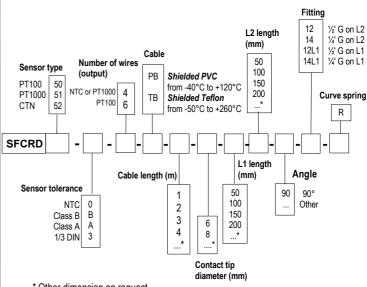
• SFCR 50 - Single pair probe -



Example: SFCR51-B-2-P-1-4-100-100-90-12-R

Model: PT1000 temperature probe class B, 2 wires, PVC cable of 1m length. Stainless steel contact tip Ø 4 mm angled at 90° and L1 and L2 lengths of 100 mm, with thread fitting 1/2 G fixed on L2, and with curve spring. Measuring range from -40 to +120°C.

SFCRD 50 - Multipair probe -



* Other dimension on request

Example: SFCRD51-B-4-PB-1-6-100-100-90-12-R

Model: PT1000 temperature probe class B, 4 wires, shielded PVC cable of 1m length. Stainless steel contact tip Ø 6 mm angled at 90° and L1 and L2 lengths of 100 mm, with thread fitting 1/2' G fixed on L2, and with curve spring. Measuring range from -40 to +120°C.

■ Tolerances* of Pt100 and Pt1000 probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms

	Tolerances						
Temp °C	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	,

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

Tolerances* of NTC probes

Measuring range °C	Tolerances °C
From -20°C to 0°C	± 0,5°C
From 0°C to +70°C	± 0,2 °C
From +70°C to +100°C	± 0,5 °C

^{*} 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.

Accessories (see related data sheet)

- Transmitter output 4-20 mA or 0/10V
- Wall mounting support
- · Stainless steel mounting brackets
- 1/4, 1/2 gas screw nut
- Sliding connection
- Teflon or stainless. steel ferrule for compression fitting
- Sleeve to weld for food industry (with 1/2" G female)
- · Stainless steel junction fitting
- 1/2 gas or NPT thread cuff
- Thermo-conducting silicone grease
- · Calibration certificate
- Thermowell







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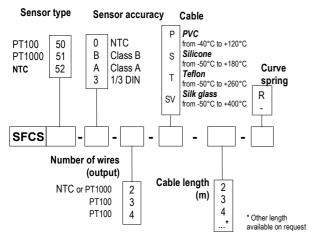
Surface contact wire temperature probe

SFCS 50 / SFCSD 50

- Temperature probe with copper tip for surface contact
- Measuring ranges (according to cable) from -50°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC)
- Wire mounting: simple (2,3 or 4 wires). duplex (4 or 6 wires)
- For other resistance types (PT25, PT50, PT500, PT200 or NI, please contact us)

Part numbers

• SFCS – Single pair probe -

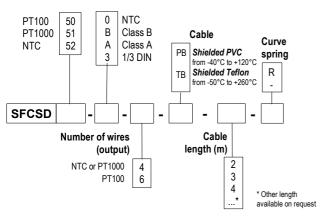


Example: SFCS50-B-3-P-4

Model: Class B Pt100 temperature probe, 3-wire, PVC cable length 4m, without curve spring. Measuring range from -40 to +120°C.

SFCSD – Multipair probe -

Sensor type Sensor accuracy



Example: SFCSD50-B-6-PB-4

Model: Class B Pt100 temperature probe, 6-wire, shielded PVC cable length 4m without curve spring. Measuring range from -40 to +120°C.

Transmitter features

Operating temperature.....for SFCS types

(according to cable) from -50°C to +400°C (PT100 and PT1000)

from -20°C to +120°C (NTC)

for SFCSD types

from -50°C to +250°C (PT100 and PT1000)

from -20°C to +120°C (NTC)

Accuracy.....PT100 or PT1000: see « Tolerances » table

NTC: see "Tolerances" table

Sensor type......PT100 or PT1000: Class B, Class A,

1/3 DIN as per DIN IEC751

NTC: resistance at 25°C, $R_{25} = 10 \text{K}\Omega$

Nominal Beta value B25/85 = 3,695K ±1%

Wire mounting.....single pair, 2, 3 or 4 wires

multipair 4 or 6 wires



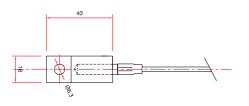
Storage temperature......from -20°C to +80°C

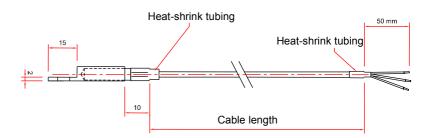
made of copper

Operating temperature

for cable.....PVC : from -40°C to +120°C

Silicone: from -50°C to +180°C
Teflon (PFA): from -50°C to +260°C
Silk glass: from -50°C to +400°C





■ Tolerances* of Pt100 and Pt1000 probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

T °C	Tolerances						
Temp °C	CI	ass 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	

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
From -20°C to 0°C	± 0,5°C
From 0°C to +70°C	± 0,2 °C
From +70°C to +100°C	± 0,5 °C

* 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.

Accessories (see related data sheet)

- Transmitter output 4-20 mA or 0/10V
- Wall mounting support
- Stainless steel mounting brackets
- 1/4, 1/2 gas screw nut
- Sliding connection
- Teflon or stainless. steel ferrule for compression fitting



- Sleeve to weld for food industry (with ½" G female)
- Stainless steel junction fitting
- 1/2 gas or NPT thread cuff
- Thermo-conducting silicone grease
- · Calibration certificate
- Thermowell



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Temperature probe with cable for pipe

SFCT50 / SFCTD50

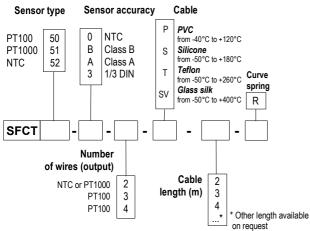
- Temperature probe with contact tip for pipe (all diameter).
- Measuring range (according to cable)

from -50°C to +400°C (PT100 and PT1000). from -20°C to +120°C (NTC).

- 2 wires for NTC and PT1000 outputs,
 3 or 4 wires for PT100 output.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

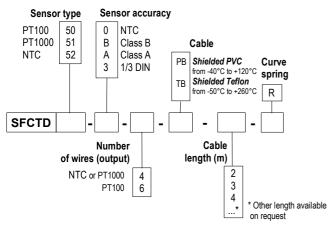
• SFCT - Single pair probe -



Example: SFCT50-B-3-P-4

Model: Pt 100 temperature probe, Class B, 3 wires, PVC cable of 4 m length without curve spring. Measuring range from -40 to +120°C.

SFCTD – Multipair Probe -



Example: SFCTD50-B-6-PB-4

 $\label{eq:Model:Pt 100} \textbf{Model}: Pt 100 temperature probe, Class B, 6 wires, PVC cable of 4 m length without curve spring. \\ \textbf{Measuring range from -40 to +120°C}.$

Transmitter features

Operating temperature.....for SFCT type

(According to cable) from -50°C to +400°C (PT100 and PT1000)

from -20°C to +120°C (NTC)

for SFCTD type

from -50°C to +250°C (PT100 and PT1000)

from -20°C to +120°C (NTC)

Accuracy*.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Sensor type ype of sensor......PT100 or PT1000 : Class B, Class A

and 1/3 DIN as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3.695K ±1%

Wire mounting......single pair 2, 3 or 4 wires

multipair 4 or 6 wires



Storage temperature......from -20°C to +80°C

V shape screw fastener

made of AU4G (aluminium)

Connection.....supplied with stainless steel adjustable ring

for DN 100. Other adjustable ring available

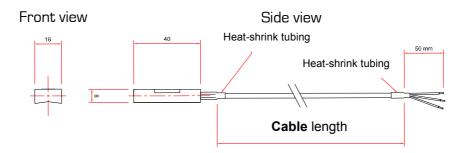
on request

Operating temperature of cable...

PVC : from -40°C to +120°C Silicone : from -50°C to +180°C Teflon (PFA) : from -50°C to +260°C

Glass silk with stainless steel sheet: from -50°C to +400°C

Probes dimensions



Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

T °C	Tolerances						
Temp °C	CI	ass 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	

^{*}Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 ± 0.3°C \rightarrow ± 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See related datasheet)

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



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



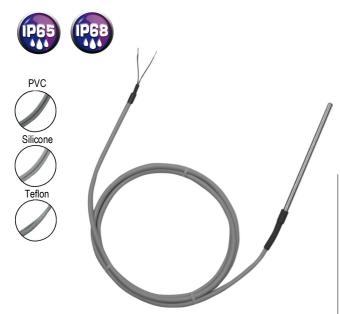
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Probe features

- Temperature probe mounted on conductive cable with stainless steel contact tip.
- Measuring range (according cable):

from -50°C to +260°C (PT100 and PT1000). from -20°C to +120°C (NTC).

- 2 wires (SFE) or 4 wires (SFED) for NTC and PT1000 output
- 3 4 wires (SFE) or 6 wires (SFED) for PT100 output.
- For other resistance type PT25, PT50, PT500, PT200 or NI, please contact us.

Temperature probe with cable and resistive element IP65 and IP68 watertight*

SFE 50 / SFED 50

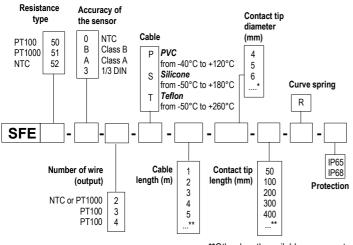
Technical feature

l	Working temperature	from -50°C to +260°C (PT100 and PT1000)
	(According cable)	from -20°C to +120°C (NTC)
	Accuracy**	PT100 or PT1000 : see "Tolerances" table
		NTC : see "Tolerances" table
	Type de capteur	PT100 or PT1000 : class B, class A, 1/3 DIN
		as per DIN IEC751
		CTN : resistance at 25°C, R_{25} = 10K Ω Nominal
		Beta value B25/85 = 3,695K ±1%
	Storage temperature	from -20°C to +80°C
	Working temperature of	
l	the cable	PVC : from -40°C to +120°C
l		Silicone: from -50°C to +180°C
		Teflon (PFA): from -50°C to +260°C
	Contact tip	316 L stainless steel, watertight crimping with heat shrink tubing.
l		Optional : curve spring
	Protection(As per CEI 60529)	IP65 : protection against water jets from any directions IP68 : protection against continuous immersion

^{**}All accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

Part numbers

• SFE 50 – Single pair probe -



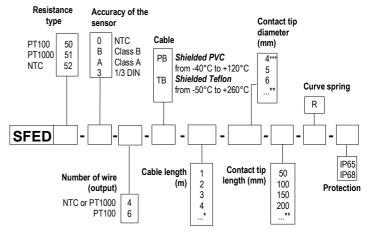
**Other length available on request

Exemple: SFE51-B-2-P-1-4-100-IP68

Model : Temperature probe PT1000 Class B, 2 wires, PVC cable of 1 m length. Stainless steel contact tip 4 mm \emptyset , length100 mm, without curve spring, IP68 watertight.

Measuring range from -40 to +120°C.

SFED 50 – Multipair probe -



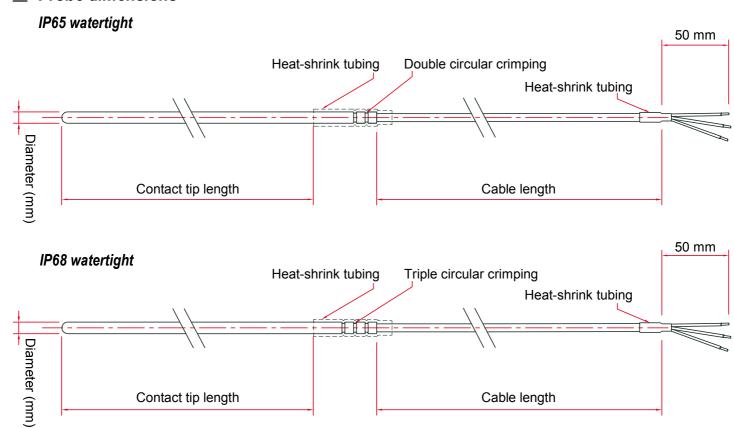
* * Other length available on request *** Multipair 2 x 2 wires only

Exemple: SFED51-B-4-PB-1-6-100-IP68

Model : Temperature probe PT1000 Class B, 4 wires, shielded PVC cable of 1 m length. Stainless steel contact tip 6 mm \emptyset , 100 mm length, without curve spring, IP68 watertight.

Measuring range from -40 to +120°C.

Probe dimensions



Mountings with IP65 protection

With Ø 4 mm contact tip

Type of coble	Mounting				
Type of cable	2 wires	3 wires	4 wires	6 wires	
PVC	✓	✓	✓	х	
Silicone	✓	✓	х	х	
Pfa	✓	✓	✓	х	

✓ : feasible mounting

X: mounting not available

With Ø 5 mm contact tip

Type of coble	Mounting				
Type of cable	2 wires	3wires	4 wires	6 wires	
Silicone	✓	✓	✓	х	
Pfa	√	✓	✓	✓	

✓ : feasible mounting

X: mounting not available

With Ø 6 mm contact tip

Type of cable	Mounting				
Type of cable	2 wires	3wires	4 wires	6 wires	
PVC	✓	✓	✓	✓	
Silicone	✓	✓	✓	✓	
Pfa	✓	✓	✓	✓	

✓ : feasible mounting

X: mounting not available

Mountings with IP68 protection

With Ø 4 mm contact tip

Type of cable	Mounting				
Type of cable	2 wires	3 wires	4 wires	6 wires	
PVC	✓	✓	✓	х	
Silicone	✓	✓	х	х	
Pfa	✓	✓	х	х	

✓ : feasible mounting

X: mounting not available

With Ø 5 mm contact tip

Type of coble	Mounting				
Type of cable	2 wires	3 wires	4 wires	6 wires	
Silicone	✓	✓	✓	х	
Pfa	✓	✓	✓	✓	

✓ : feasible mounting

X: mounting not available

With Ø 6 mm contact tip

Type of cable	Mounting				
Type of cable	2 wires	3 wires	4 wires	6 wires	
PVC	✓	✓	✓	✓	
Silicone	✓	✓	✓	✓	
Pfa	✓	✓	✓	✓	

✓ : feasible mounting

X: mounting not available

Tolerances* of PT100 and PT100 probes.

Norms as per IEC 751 (1993).

	Tolerances					
Temp °C	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

Resistance value for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C).le. at 0°C for class B PT1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
From -20°C to 0°C	± 0.5°C
From 0°C to +70°C	± 0.2 °C
From +70°C to +100°C	± 0.5 °C
	1

* 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.

Accessories (See related datasheet)

- Transmitter output 4/20 mA or 0/10V
- Wall fixing support
- Stainless steel mounting brackets
- 1/4" or 1/2" Gas screw nut
- Stainless steel compression fitting
- Teflon 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



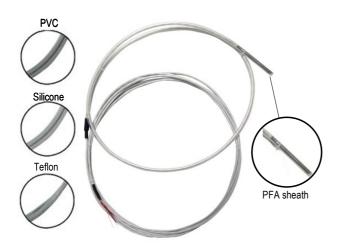
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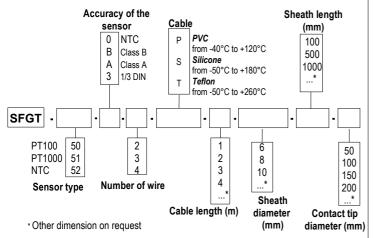


Cable temperature probe at resistive element for aggressive environment

SF GT 50 – SFGTD 50

Part numbers

SFGT

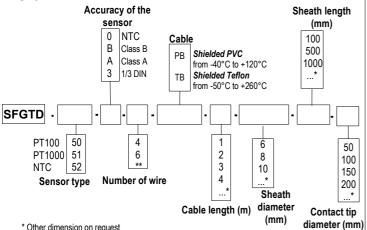


Example: SFGT50-B-3-P-3-6-500-100

Model: Temperature sensor PT100 Class B, 3 wires, PVC cable of 3 m length and of 6 mm diameter with a sheath of 500 mm length and a contact tip of 100 mm length.

Measuring range : from -40 to +120 °C

SFGTD



Other dimension on request

 ** no 6 wires for output $\,\dot{6}$ mm, or mounting with stainless steel protection

Example: SFGTD50-B-6-PB-3-8-500-100

Model: Multipair temperature sensor PT100 Class B, 6 wires, shielded PVC cable of 3 m length and of 8 mm diameter with a sheath of 500 mm length and a contact tip of 100 mm length. Measuring range: from -40 to +120 °C

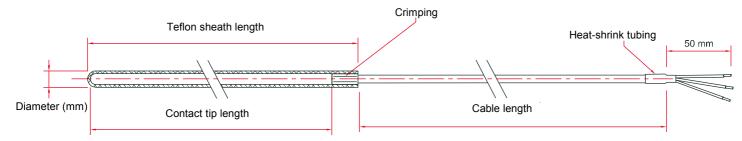
Probe features

- Temperature sensor mounted under PFA sheath
- Measuring range from -50°C to +550°C (PT100 and PT1000) from -20 °C to +120 °C (NTC)
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

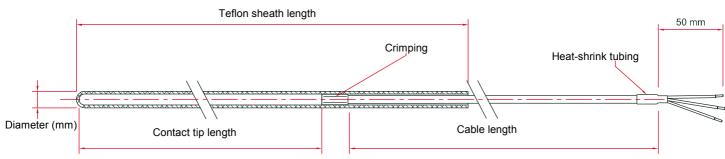
Technical features

Operating temperature(According to cable)	from -50°C to +250°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10KΩ Nominal Beta B25/85 value = 3,695K ±1%
Storage temperature	from -20°C to +80°C
Operating temperature	PVC : from -40 to +120 °C Silicone : from -50 to +180 °C Teflon (PFA) : from -50 to +260 °C
Contact tip	perfluoralkoxy (PFA) sheath temperature max. At short term use: 280 °C

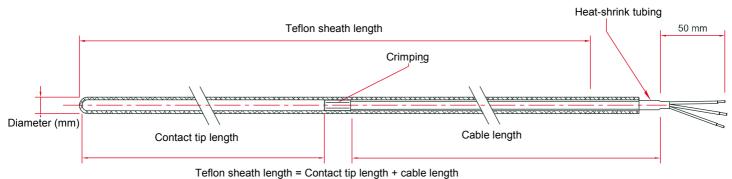
Softening at +/- 327 °C



Teflon sheath length = Contact tip length



Teflon sheath length > Contact tip length



■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

| Tolerances* of PT100 and PT1000 probes

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

		Tolerances				
Temp °C	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

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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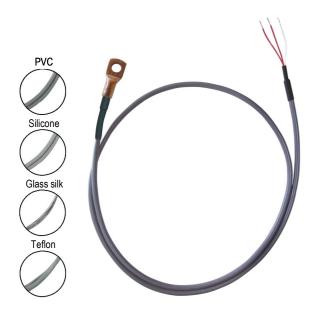


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Probe features

- Temperature probe mounted on conductor cables with stainless steel contact tip and perforated copper eyelet (Ø 6.3 mm).
- Measuring range (according to cable):

from -50°C to +400°C (PT100 et PT1000). from -20°C to +120°C (NTC).

- 2 wires output (SFO) or 4 wires (SFOD) for NTC and PT1000
 3 or 4 wires output (SFO) or 6 wires (SFOD) for PT100.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

• SFO 50 - Single pair probe -

Cable Sensor type Sensor accuracy Р **PVC** NTC PT100 from -40°C to +120°C 50 Class B PT1000 51 Silicone NTC 52 Class A from -50°C to +180°C Curve 1/3 DIN Teflon spring from -50°C to +260°C Glass silk from -50°C to +400°C **SFO** Cable Number of wires (output) length (m) Lug type NTC or PT1000 Eyelet (closed) Ø 6.3 mm PT100 2 Other 2 PT100 3 4 * Other length available on request

Example : SFO51-B-2-P-1-2

Model: Pt 1000 temperature sensor, Class B, 2 wires, PVC cable of 1m length. Stainless steel contact tip 4.5 mm Ø, length 60 mm, with a copper eyelet perforated Ø 6.3 mm, without curve spring. **Measuring range from -40 to +120°C.**

Temperature probe
with cable at resistive element
for contact measurement by eyelet

SFO 50 / SFOD 50

Transmitter features

Operating temperature......from -50°C to +400°C (PT100 et PT1000) (**According to cable**) from -20°C to +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

Sensor type.....PT100 or PT1000 : class B, class A, 1/3 DIN

as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3,695K ±1%

NTC: see "Tolerances" table

Storage temperature.....from -20°C to +80°C

Working temperature

of the cable.....PVC : from -40°C to +120°C

Silicone: from -50°C to +180°C

Teflon (PFA) : from -50°C to +260°C (Optional : shield)
Glass silk with stainless steel sheath : from -50°C to +400°C

...Copper eyelet 14 x 12 mm, note fixing of \$2 0.5 mm.

Output stainless steel 316 L tube of 10mm with Ø 4.5 mm (SFO)

or 5 mm (SFOD).

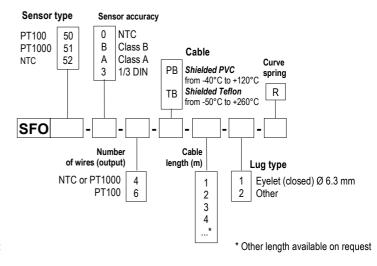
Waterproof crimping with heat-shrink tubing.

(unless glass silk cable with simple crimping on stainless steel

sheath)

Optional: curve spring

SFOD 50 - Multipair Probe -

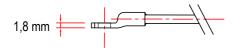


Example: SFOD51-B-4-P-1-2

Model : Pt 1000 temperature sensor, 4 wires, shielded Teflon cable of 1m length. Stainless steel contact tip 5 mm \emptyset , length 60 mm, with a copper eyelet perforated \emptyset 6.3 mm, without curve spring. **Measuring range from -40 to +120°C.**

^{*}all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Side view



Tolerance of PT100 and PT1000 probes.

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

- :	Tolerances						
Temp °C	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	

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

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Tolerances of NTC probes

Measuring range °C	Tolerances °C
From -20°C to 0°C	± 0,5°C
From 0°C to +70°C	± 0,2 °C
From +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

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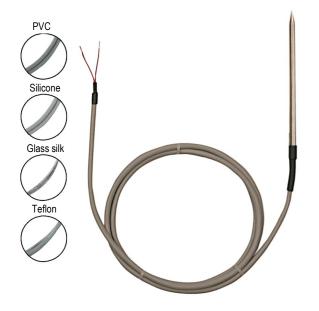
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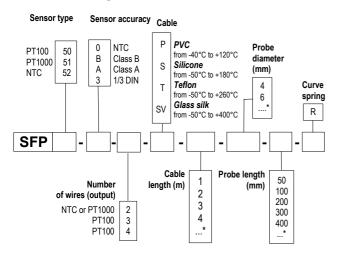


Probe features

- Stainless steel temperature probes with conductive cable and penetration sheath.
- Measuring range (according to cable)
 from -50°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- 2 wires for NTC and PT1000 outputs, 3 or 4 wires for PT100 output.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

• SFP 50 - Single pair probe -



* Other length available on request

Example: SFP51-B-2-P-1-4-100

Model: Pt 1000 temperature sensor, Class B, 2 wires, PVC cable of 1 m length. Stainless steel protective sheath 4 mm Ø, length 100 mm, without curve spring. **Measuring range from -40 to +120°C.**

Penetration probe with cable

SFP 50 / SFPD 50

Transmitter features

Operating temperature......from -50°C to +400°C (PT100 and PT1000)

(According to cable) from -20°C to +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Sensor type......PT100 or PT1000 : class B, class A, 1/3 DIN,

as per DIN IEC751

NTC : resistance at 25°C, $R_{_{25}}$ = 10K Ω Nominal

Beta value B25/85 = 3.695K ±1%

Storage temperature......from -20°C to +80°C

Working temperature of the cable

PVC : from -40°C to +120°C
Silicone : from -50°C to +180°C
Teflon (PFA) : from -50°C to +260°C

Glass silk with stainless steel sheet : from -50 $^{\circ}$ C to +400 $^{\circ}$ C

Probe......316 L stainless steel, watertight crimping with heat shrink tubing. (Except glass silk cable

with standard mounting on stainless steel duct)

Wire mounting.....single pair 2, 3 or 4 wires

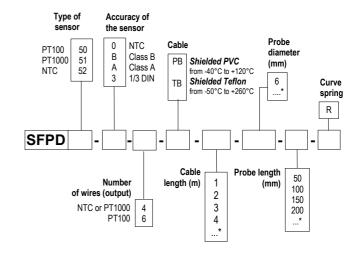


- 4 wires inside 4mm Ø available for PVC only.
- 4 silicone wires inside 6mm Ø not available.

multipair 4 or 6 wires

- 2x2 wires for NTC and PT1000
- 2x3 wires for PT100

• SFPD 50 - Multipair Probe -



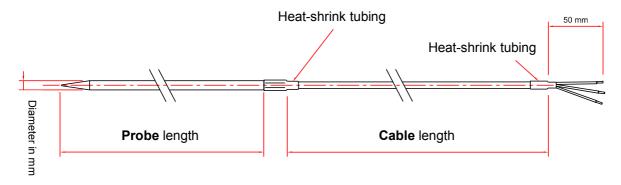
* Other length available on request

Example: SFPD51-B-4-PB-1-6-100

Model: Temperature sensor PT1000 Class B, 4 wires, shielded PVC cable of 1 m length. Stainless steel protective sheath 6 mm Ø, length 100 mm, without curve spring. Measuring range from -40 to +120°C.

^{*}all accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

Probes dimensions



Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993).

T °C	Tolerances					
Temp °C	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

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



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



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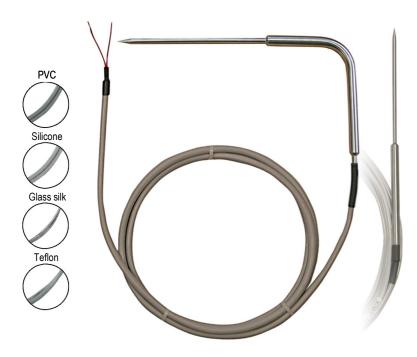
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Temperature probe with needle ended tip at resistive element



Type SFPP 50

SFPP 50 - SFPPD 50 / SFPPC 50 - SFPPCD 50

Probe features

- Penetration temperature probe mounted on straight or angled handle.
- Measuring range (according to cable):

from -50°C to +400°C (PT100 et PT1000). from -20°C to +120°C (NTC).

- 2 wires output (SFPP, SFPPC) or
 4 wires output (SFPPD, SFPPCD) for NTC and PT1000
- 3 4 wires output (SFPP, SFPPC) or
 6 wires output (SFPPD, SFPPCD) for PT100.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Transmitter features

Working temperature.....from -50°C to +400°C (PT100 and PT1000)

(According to cable) from -20°C and +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Sensor type......PT100 or PT1000 : class B, class A, 1/3 DIN

as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3,695K ±1%

Storage temperature......from -20°C to +80°C

Working temperature

of the cable......Shielded PVC : from -40°C to +120°C

Silicone: from -50°C to +180°C

Shielded Teflon (PFA): from -50°C to +260°C

Glass silk with stainless steel sheet : from -50°C to +400°C

Mounting of output cable...........Cable or stainless steel flexible 7 mm Ø output.

Waterproof flexible optional on demand

Curve spring optional (except stainless steel flexible output)

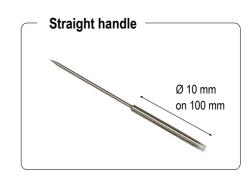
Contact tip.............4.5 or 6 mm Ø in 316 L stainless steel

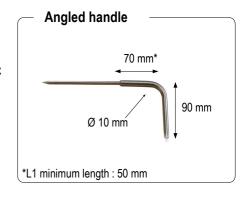
Needle ended tip

Handle: Straight 10 mm Ø length 100 mm

Angled at 90° length 90 mm

Other on request.





Tightness is optional for use in wet or submerged places

SFPP 50 & SFPPD 50

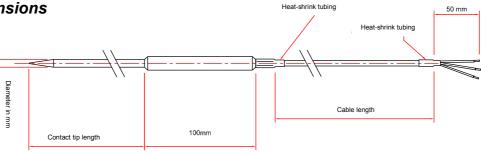
Tapping probe with cable and handle in simple pair or multipair assembly

Straight handle probe on cable

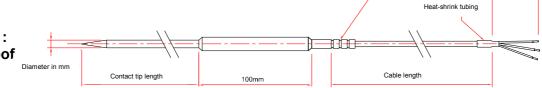
Straight handle probe on flexible



Probe dimensions



Optional: waterproof



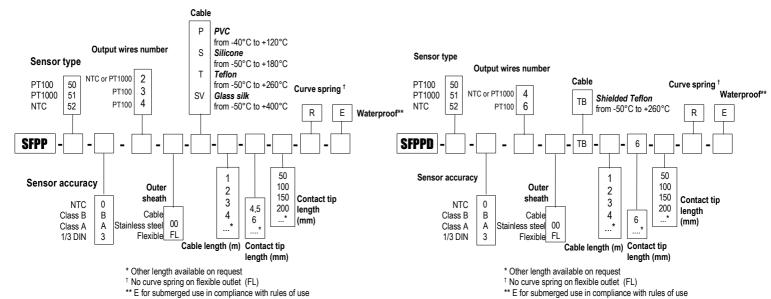
Part numbers

Straight handle probes are available with simple pair or multipair electrical assembly:

Single pair probe - Ref. SFPP 50

Multipair Probe – Ref. SFPPD 50

Triple circular crimping



Example: SFPP51-B-2-00-P-1-45-100

Model: PT1000 temperature probe Class B, 2 wires, outer sheath in PVC cable of 1m length. Stainless steel contact tip Ø 4,5 mm tapping with right handle, length 100 mm, without curve spring. Measuring range from -40 to +120°C.

Example: SFPPD51-B-4-00-TB-1-6-100

Model: PT1000 temperature probe, Class B, 4 wires multipair mounting, outer sheath in shielded cable Teflon of 1m length. Stainless steel contact tip 6 mm \varnothing tapping with right handle, length 100 mm, without curve spring. **Measuring range from -50 to +260°C.**

SFPPC 50 & SFPPCD 50

Angled handle tapping probe with cable in simple pair or multipair assembly

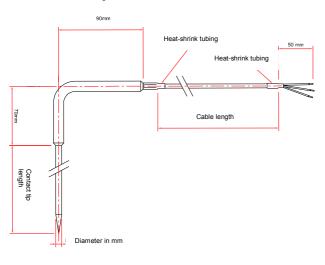
Angled handle probe on cable

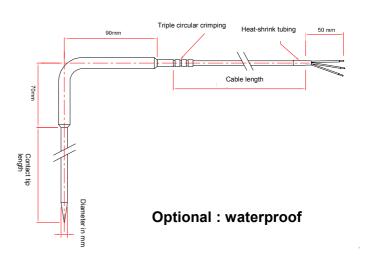


Angled handle probe on flexible



Dimensions probe

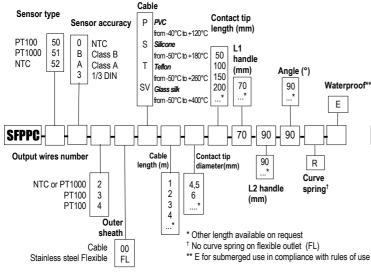




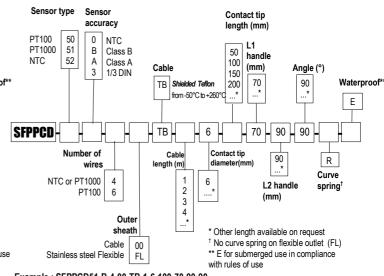
Part numbers

Angled handle probes are available with simple pair or multipair electrical assembly:

Single pair probe - Ref. SFPPC 50



Multipair Probe - Ref. SFPPCD 50



Example: SFPPC51-B-2-00-P-1-45-100-70-90-90

Model: PT1000 temperature probe Class B, 2 wires, outer sheath in PVC cable of 1m length . Stainless steel contact tip Ø 4,5 mm tapping with angled handle, $\,$ L1 length 70mm and L2 length 90 mm, angled handle of 90°, without curve spring. Measuring range from -40 to +120°C.

Example: SFPPCD51-B-4-00-TB-1-6-100-70-90-90

Model: PT1000 temperature probe, Class B, 4 wires, outer sheath in cable shielded Teflon of 1m length . Stainless steel contact tip Ø 6 mm tapping with angled handle of L1 length of 70mm and L2 length of 90 mm, angled handle of 90°, without curve spring. Measuring range from -50 to +260°C.

■ Tolerance of PT100 and PT1000 probes.

Norm as per IEC 751 (1993).

	Tolerances								
Temp °C	CI	ass B	CI	ass 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			

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Tolerances of NTC probes

Measuring range °C	Tolerances °C
From -20°C to 0°C	± 0,5°C
From 0°C to +70°C From +70°C to +100°C	± 0,2 °C ± 0,5 °C

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- Compression fitting
- Teflon or stainless steel ferrule for compression fittings
- Raccord de fixation alimentaire
- Stainless steel union fitting
- 1/2" Gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



Ref. FTang – SFPP – SFPPC 50 - 02/06/10 – RCS (24) Périgueux 349 282 095 Non-contractual document – We reserve the right to modify the characteristics of our products without prior notioe.

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Silicone
Glass silk
Teflon

T handle temperature probe with cable at resistive element

SFPPT 50 / SFPPTD 50

Technical features

Operating temperature......from -50°C to +400°C (PT100 and PT1000)
(according to cable) from -20°C to +120°C (NTC)

Accuracy *.....PT100 or PT1000 : see "Tolerances" table

NTC : see "Tolerances" table

Sensor type......PT100 or PT1000 : class B, class A, 1/3 DIN

as per DIN IEC751

NTC : resistance at 25°C, R_{25} = 10K Ω Nominal

Beta value B25/85 = 3,695K ±1%

Storage temperature.....from -20°C to +80°C

Operating temperature

of cable.....Shielded PVC : from -40°C to +120°C

Silicone: from -50°C to +180°C

Shielded Teflon (PFA): from -50°C to +260°C

Silk glass with stainless steel braid : from -50°C to +400°C

Mounting of cable outlet......With shrinking type penetration end piece : unremovable PE output

With corkscrew type penetration end piece : detachable Jack output

Contact tip......Ø 4.5 or 8 mm in stainless steel 316 L, choice of length

Sewing contact tip

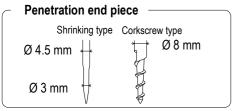
corkscrew (to screw) : contact tip diameter 8 mm Ø only Shrinking : contact tip Ø 4.5 mm and shrinking Ø 3 mm

Probe features

- Temperature probe à piquer mounted on T handle.
- Measuring ranges (according to cable):

from -50°C to +400°C (PT100 and PT1000). from -20°C to +120°C (CTN).

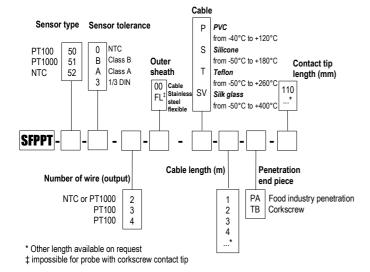
- 2-wire output (SFPPT) or
- 4-wire output (SFPPTD) for NTC and PT1000
- 3-4 wire output (SFPPT) or
- **6**-wire output (SFPPTD) for **PT100**.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.



Part numbers

T handle probes are available with simple pair or multipair electrical assembly:

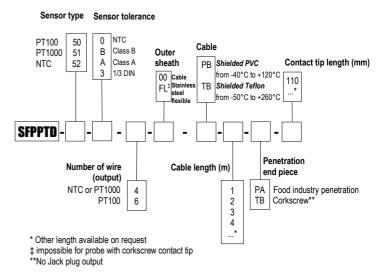
Single pair probe – Ref. SFPPT 50



Example: SFPPT50-B-3-00-P-2-PA-110

Model: PT100 temperature probe, Class B, 3 wires, outer sheath in PVC cable of length 2 m. Stainless steel contact tip 4,5 mm Ø for food industry penetration of length 110 mm with shrinking type penetration end piece. **Measuring range from -40 to +120°C.**

• Multipair probe - Ref. SFPPTD 50

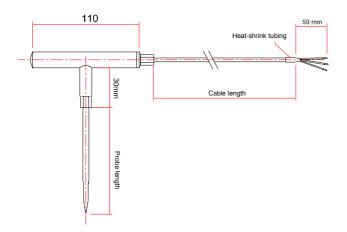


Example: SFPPTD50-A-6-00-TB-2-PA-110

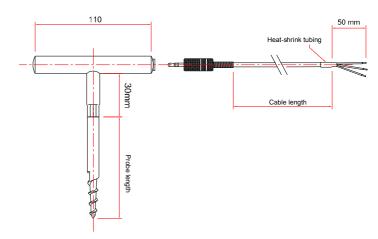
Model: PT100 temperature probe, Class A, multipair assembly 6 wires, outer sheath in shielded Teflon cable of length 2m. Stainless steel contact tip 4,5 mm Ø for food industry penetration of length 110 mm with shrinking type penetration end piece. **Measuring range from -50 to +260°C.**

Dimensions probes

· Probe with smooth contact tip



Probe with corkscrew contact tip



■ Tolerance* of PT100 and PT1000 probes.

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

T *0	Tolerances								
Temp °C	CI	ass B	CI	ass 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			

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature l.e : at 0°C for PT1000 Class B \pm 0,3°C \rightarrow \pm 1,2 Ω

■ Tolerances* of NTC probes

Tolerances °C
± 0,5°C
± 0,2 °C
± 0,5 °C

^{*} 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.

Accessories (See data sheet)

- DIN Rail transmitter output 4/20 mA or 0/10V
- Calibration certificate

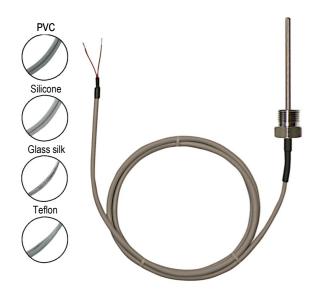
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Probe features

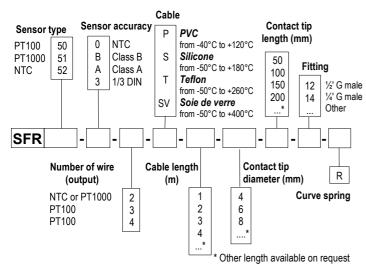
- Temperature probe mounted on conductive cable with stainless steel contact tip and fitting.
- Measuring range (according to cable):

from -50°C to +400°C (PT100 and PT1000). from -20°C to +120°C (NTC).

- 2 wires (SFR) or 4 wires (SFRD) for NTC and PT1000 outputs
- 3 4 wires (SFR) or 6 wires (SFRD) for PT100 output.
- For other resistance types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

SFR 50 - Simple pair probe -



Example : SFR51-B-2-P-1-4-100-12

Model : PT1000 temperature probe, Class B, 2 wires, PVC cable of 1m length. Stainless steel contact tip of 4 mm \varnothing , length 100 mm, fitting process with ½' G thread, without curve spring. Measuring range from -40 to +120°C.

Temperature probe with C€ cable at resistive element with fixing fitting

SFR 50 / SFRD 50

Technical features

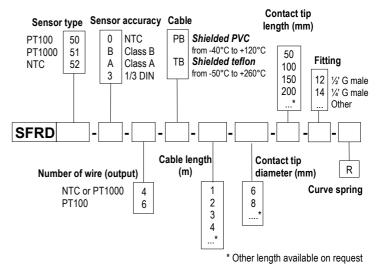
Operating temperature......from -50°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC) (According to cable) Accuracy *.....PT100 or PT1000 : see "Tolerances" table NTC: see "Tolerances" table Sensor type......PT100 or PT1000 : class B, class A and 1/10 DIN as perIEC751 **NTC**: resistance at 25°C, R_{25} = 10K Ω Nominal Beta value B25/85 = 3,695K ±1% Storage temperature......from -20°C to +80°C Operating temperature of cable......PVC : from -40°C to +120°C Silicone: from -50°C to +180°C Teflon (PFA): from -50°C to +260°C (Shielded is optional) Glass silk with stainless steel sheet : from -50°C to +400°C Compression fitting.....inox 316 L Thread......1/4" or 1/2" Gas screw nut Contact tip......316 L stain less steel, watertight crimping with heat shrink tubing. (Except glass silk cable with Standard mounting on stainless steel duct)

*all accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranted for measurements carried out in the same conditions, or carried out with calibration compensation.

Optional: curve spring

No 4-wire mounting for 4mm Ø contact tip

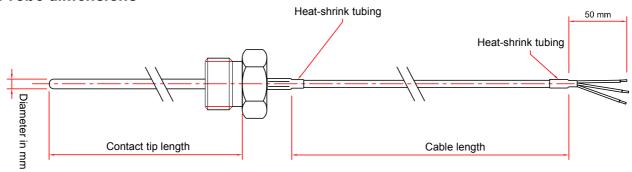
SFRD 50 – Multipair probe



Example : SFRD51-B-4-PB-1-6-100-12

Model: PT1000 temperature probe, Class B, 4 wires, shielded PVC cable of 1m length. Stainless steel contact tip of 6 mm \emptyset , length 100 mm, fitting process with $\frac{1}{2}$ G thread, without curve spring. **Measuring range from -40 to +120°C.**

Probe dimensions



Tolerances* of PT100 and PT1000 probes.

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms.

T °C	Tolerances							
Temp °C	CI	ass B	CI	ass 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		

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for PT1000 Class B \pm 0,3°C \rightarrow \pm 1,2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

* 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

Accessories (See data sheet)

- Transmitter 4/20 mA or 0/10V output
- Wall mounting support
- Stainless steel mounting brackets
- 1/4" or 1/2" Gas screw nut
- Compression fittings
- Teflon or stainless steel ferrule for compression fittings



- Sleeve to weld for food industry (avec manchon ½" G femelle à souder)
- · Stainless steel junction fitting
- 1/2" Gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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er)

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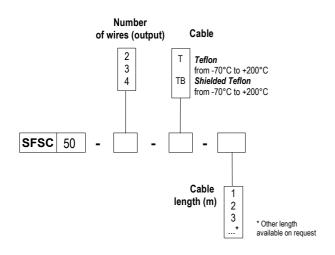


Probe with self adhesive patch

SFSC 50

- Probe with thin and flexible laminar resistance.
- Enables good response times.
- Measuring range : from -70°C to +200°C

Part numbers



Example: SFSC50-3-T-4

Model: Pt 100 temperature sensor, Class A, 3 wires, Teflon cable of 4

m length. Measuring range from -70 to +200°C.

Transmitter features

 Operating temperature
 from -70°C to +200°C

 Accuracy *
 ± (0.15°C + 0.002 ltl)

 thus ± 0.15°C at 0°C

 and ± 0.35°C at 100°C

 Sensor type
 PT100 Class A

 Single pair
 as per IEC751

 Dimensions
 50 x 20 mm and 0.3 mm depth

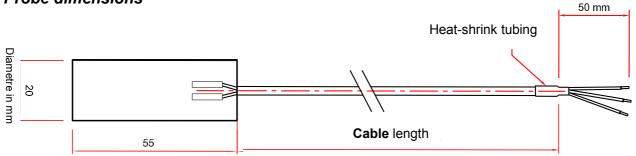
 Insulation
 polyimide

 Cable
 T : Pfa 2 or 3 conductors

 TB : Shielded Pfa 2, 3 or 4 conductors

 Storage temperature
 from -20°C to +80°C

Probe dimensions



Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

T °C	Tolerances								
Temp °C	CI	ass B	CI	ass 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			

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (see data sheet)

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



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



Colle silicone transparente

For watertightness and sticking. Ready to use. Moisture cured. Flexible at high and low temperature. UV and time resistant. Tube of 90 ml. • Part number : KI - TCS



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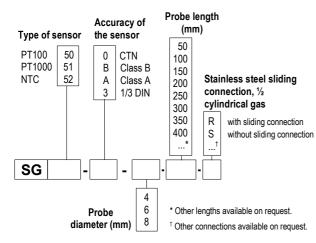


Temperature sensor with ABS head housing **SG 50**

- Temperature sensor with stainless steel probe.
- Measuring ranges from -50°C to +100°C (PT100 and PT1000).
 from -20°C to +100°C (NTC).
- Terminal block connection, output 2, 3 or 4 wires.
- ABS IP65 housing.
- With or without stainless steel compression fitting, 1/2" cylindrical gas (other available on request).
- Quick and easy mounting 1/4" turn system with wall-mount plate.
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

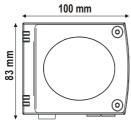


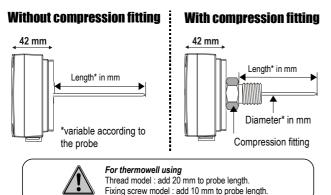
Example : SG51-B-4-100-R

Model : Temperature sensor PT1000 Class B. Stainless steel probe \emptyset 4 mm, length 100 mm, with stainless steel sliding connection ½ cylindrical gas on IP65 ABS housing. Measuring range from -50 à +100°C.

Housing dimensions

(including wall-mount plate)





■ Transmitter features

Measuring ranges	from -50°C to +100°C (PT100 and PT1000) from -20°C to +100°C (NTC)
Accuracy *	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN, 1/5 DIN, and 1/10 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10KΩ Nominal
Probe Compression fitting Environment	316 L stainless steel , ½"G male

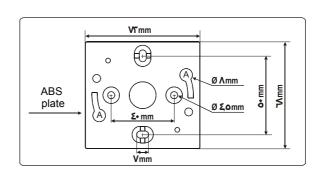
^{*}all accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be garanted for measurements carried out in the same conditions, or carried out with calibration compensation.

Housing features

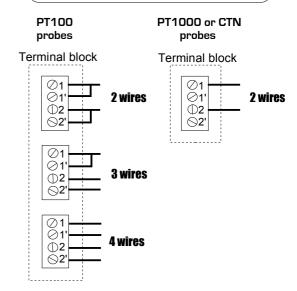
Housing	ABS
Fire-proof classification	.H-B as per UL94
Dimensions	See drawings beside
Protection	IP 65
Cable grid	for cables Ø 7mm maxi
Weight	. 110g
Working temperature	from -20°C to +80°C

Mounting

Installation: mount the ABS plate on the wall (this plate is supplied with the transmitter). Drilling: Ø 6 mm (with the screws and pins supplied with the transmitter). Insert the transmitter on the plate (see A on the drawing below) and rotate its housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed. For models with duct mount, an additional drilling of Ø14mm must be made before mounting the ABS plate.

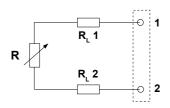


Cable connection on terminal block



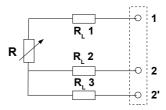
Useful information on thermometry with platinum resistor PT100, PT1000 or NTC.

• 2-wire connection



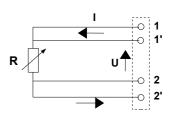
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

■ Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances									
Temp °C	Cla	ass B	Cla	ass A	1/3	3 DIN	1/9	5 DIN	1/1	0 DIN
	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms	± ℃	± Ohms
-50	0,55	0,22	0,25	0,1	0,19	0,08	0,11	0,04	0,06	0,02
0	0,3	0,12	0,15	0,06	0,1	0,04	0,06	0,02	0,03	0,01
100	0,8	0,3	0,35	0,13	0,27	0,1	0,16	0,05	0,08	0,03

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow + 1.2 O

■ Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Maintenance

Clean the housing and probe only with cloth dampened with soapy water. Please avoid any of the following solvents at any concentration: petrol, petroleum, acetone, trichloroethylene, ammonia, acid, bicarbonate soap or bleach.

Accessories (See Datasheet)

- · Stainless steel compression fitting
- · Stainless steel mounting brackets
- Thermowells





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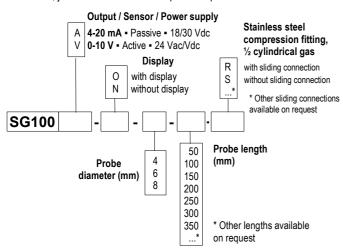


Temperature sensor with ABS head **SG 100**

- Temperature sensor with a PT100 Class A stainless steel probe.
- Measuring range from 0 to +50°C, from -20 to +80°C, from -50 to +50°C, from 0 to +100°C. (According to model, see "Configuration").
- 0-10 V ouput, active sensor, power supply 24 Vac/Vdc (3-4 wires) or 4-20 mA output, passive loop, power supply 18 to 30 Vdc (2 wires).
- ABS IP 65 housing, with or without display.
- Quick and easy mounting 1/4" turn system with wall-mount plate.
- LCC100 configuration software (optional).
- With or without stainless steel sliding connection, ½" cylindrical Gas.

Part numbers

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

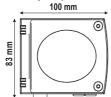


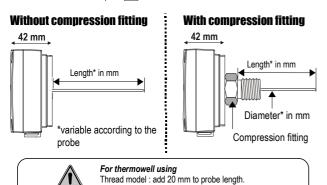
Example: SG100 - V - O - 4 - 100 - R

Model: PT100 Class A temperature sensor, with display. Stainless steel probe \emptyset 4, length 100 mm with stainless steel compression fitting $\frac{1}{2}$ " cylindrical gas on IP65 ABS housing. 0-10V active sensor with a 24 Vac/Vdc power supply.

Housing dimensions

(including wall-mount plate)





Fixing screw model: add 10 mm to probe length

Transmitter features

Measuring range see table ("configuration")	
Units of measurement°C, °F	
Accuracy* ±0,5% of reading ±0,4°C (PT100 Class A)	
Resolution0,1°C	
Type of sensor PT 100 Class A as per DIN IEC751	
Working temperature (probe)from -50°C to +100°C	
Probe	ding
Compression fitting	

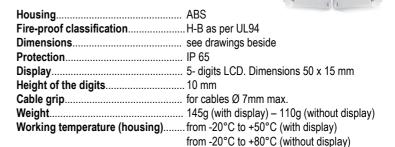
*all accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be garantied for measurements carried out in the same conditions, or carried out with calibration compensation.

■ Technical specifications

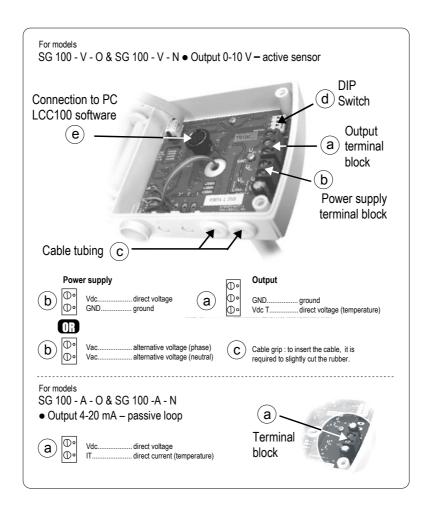
Environment....... Air and neutral gases

WITH or WITHOUT display

Housing features

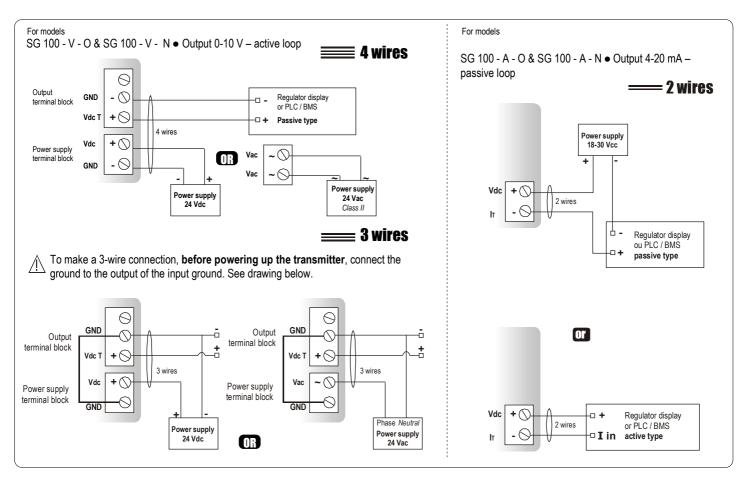


Connection



■ Electrical connection - as per norm NFC15-100

This connection must be made by a qualified technician. To make the connection, the transmitter must not be energized.

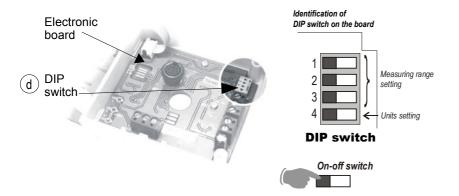


Configuration

You can configure all parameters of the transmitter: measuring ranges, units, output (according to model) either by DIP switch and/or via software (see below)

■ Configuration by **DIP switch**

To configure the transmitter, please unscrew the 2 screws from the housing, and then open it.





Whilst configuring the transmitter, it must not be energized. Make the required setting with the DIP switches (as shown on the drawing beside). When the transmitter is configured, you can power it up.

∠ Caution !

Please follow carefully the combinations shown alongside on the DIP switch. If the combinations are wrong, the following message will appear on the display of the transmitter "CONF ERROR".

In that case, unplug the transmitter, set the DIP switches correctly, and then power up the transmitter.

· Units setting

To set measuring unit, set the on-off DIP switch, as shown alongside.

Configurations	°C	°F
Combinations	1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 3 4 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

· Measuring range setting

To set the measuring range, set the on-off switches 1, 2 and 3 of the measuring range, as shown alongside.

Configurations	0 to 50 °C	-20 to 80 °C	-50 to 50 °C	0 to 100 °C
Combinations	1 2 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3 4 4	1 2 3 4	1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Measuring ranges

■ Initialization of the transmitter

When the transmitter is powered up, it initializes and displays the digits , and then its configuration including : - The measuring range - The analogue output.

1 - The measuring range.

The following message is displayed : Lo . This is the low value of the measuring range, and its digit value : ex : 0 100

The arrow displayed (at the bottom or on the right of the screen) is relative to the unit of measurement: ex: from 0 to 100 °C.

2 - The analogue output.

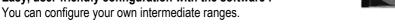
If the analogue output is in 4-20mA, then the following message will appear: If the analogue output is 0-10 V, then the following message will appear:

After the display of the configurations, the transmitter displays | - - - -, which confirms that the initialization is finished and you can start the measurements.

Configuration via software

(with optional LCC100 software)

Easy, user-friendly configuration with the software!



Example: for a transmitter with a range of -50 to +100°C, the minimum configurable range is 20°C. For example, you can configure your transmitter with a range from -20 to +80°C, or from +80 to +100°C...

- To access the configuration via software, first of all, set the DIP switch as shown below, then connect the cable to the transmitter (see alongside and refer to "Connection").
- Please refer to the user manual of the LCC 100 to make the configuration.







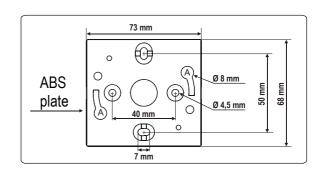
∠ Caution!

The configuration of the parameters can be done either with the DIP switch, or via software (you cannot combine both methods).

Mounting

Installation: mount the ABS plate on the wall (this plate is supplied with the transmitter). Drilling : \emptyset 6 mm (with the screws and plugs supplied with the transmitter). Insert the transmitter on the plate (see A on the drawing beside) and rotate its housing in clockwise direction until you hear a "click" which confirms that the transmitter is correctly installed.

For the model with duct mount, an additional hole Ø14mm must be made before mounting the ABS plate.



Tolerance of the PT100 Class A.

Temp°C	Tolerances Class A			
	± °C	± Ohms		
-50	0.25	0.1		
0	0.15	0.06		
100	0.35	0.13		

Maintenance

Clean the housing and probe only with cloth dampened with soapy water. Please avoid any of the following solvents at any concentration: petrol, petroleum, acetone, trichloroethylene, ammonia, acid, bicarbonate soap or bleach.

Options

- Power supply class 2, input 230 Vac, output 24 Vac, ref.KIAL-100A
- Power supply class 2, input 230 Vac, output 24 Vdc, ref.KIAL-100C
- Configuration LCC 100 software with RS 232 cable

Accessories (See Datasheet)

- · Stainless steel compression fitting
- · Stainless steel mounting brackets
- Thermowells









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Temprerature probe thermocouple K / CTN / Pt100

Special compost

- Measuring ranges from -50°C to +400°C
- Lengths from 1000 mm to 2000 mm
- Protection sheath made in stainless steel, perpendicular handle and tapered tip
- Robust and hard-wearing
- Probes compatible with temperature dataloggers and with portable thermometers

Temperature dataloggers version*



*Sold separately

The **"special compost"** temperature probes allow measurements in specofic environments such as :

Compost







Straw Grain elevator

DESCRIPTION



Perpendicular handle 2 x 150 mm, Ø 21,3 mm



Tapered tip



NTC plug





Pt100 plug Thermocouple K plug

Protection sheath in stainless steal 316 L, Ø 16

SPECIFICATIONS

Probe	Length	Range	Accuracy	Compatible with
SKP 1000 SKP 1500 SKP 2000	1000 mm 1500 mm 2000 mm	From -50 to +400°C	±1.1 °C ±0.4% of reading	Portable thermometers: TK100 / TK100 / TM200
KCC 1500 I (CTN)	1500 mm	From -40 to +120°C	±0.3°C ±0.5°C	Temperature dataloggers : Classes 110/1210
KRCI 1500 (Pt100)	1500 mm	From -50 to +400°C		Temperature dataloggers : classe 310

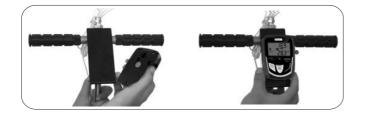
OPTIONAL

Support type KSP

It allows you to fasten temperature devices (portable or datalogger) to the probe, making the measurement easier.



Fastening on stand with temperature datalogger



Fastening on stand with portable thermometers



• BPK case in polycarbonate

It allows you to hold and protect the device to the probe making the measurement easier. It is equipped with a specific seal to resist to aggressive environments.



Technical features:

Dimension: 170 x 80 x 65 mmMaterial: polycarbonate

Seal : EPDMProtection : IP 67

Transparente cover front





Housing with Kistock KT210

• BAK case in aluminium

It allows you to fasten and protect the device to the probe making measuring dataset easier. The housing is made of strong cast aluminium and is suitable for aggressive environments.



> Dimension : 160 x 160 x 90 mm

Material : cast aluminiumSeal : neoprene

Seal: neopreneProtection: IP 65





Housing closed



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SPR350 / SPR500

Highly accurate temperature probe

TECHNICAL FEATURES

Sensitive element	Pt100 1/10 Din
Working temperature	From -190 °C to +500 °C
Accuracy (linearity, hysteresis, drift over one year)	From -70 to +250 °C : ±(0.1+0.0017 t) °C From -190 to -70 °C and from +250 to +500 °C : ± (0.15+0.002 t) °C
Nominal resistance	100 Ω at 0 °C as per IEC 60 751 standard
Measurement current	Recommended 1 mA
Temperature coefficient	$0.385~\Omega/^{\circ}\text{C}$ (between 0 and 100 °C)
Response time at 63%	12 sec.
Self-heating coefficient "E"	0.05 K/mW in the air (V _{air} = 2 m/s)
	0.01 k/mV in water (V _{water} = 0.2 m/s)
Self-heating	$\Delta t = I^2 \times R \times E$
Contact tip	O4,5 mm, length: 350 mm (SPR350) or 500 mm (SPR500) in 316 L stainless steel whitout weld
Handle	Black ABS Temperature : from -40 to +85 °C
Cable	Pfa sheathed Shielded braid 4 conductors in silver copper, of 0.22 mm² section Max. temperature : 250 °C Length : 2 m
Cofrac calibration	3 points : -40 °C, 0 °C and 200 °C, others points on request
Recommended immersion length	130 mm

OPTIONAL

· Custom connector mounting on request

SUPPLIED WITH



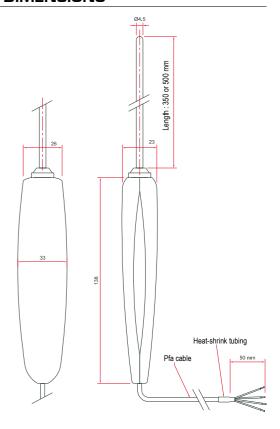
Supplied with transport case

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SPR350 probe on climatic chamber SPR350 probe on calibration oven

DIMENSIONS



APPLICATION





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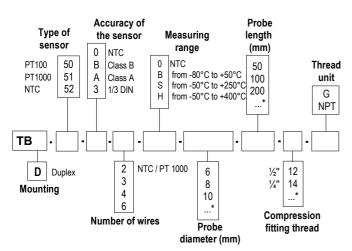
RTD sensor with standard connection head

TB 50 / TBD 50

- Temperature sensor with stainless steel sheath, with or without compression fitting.
- Measuring range from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- Mounting of wires: single pair (2, 3 or 4 wires).
 multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

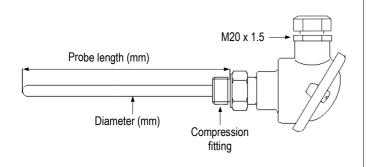


^{*} Other dimensions on request

Example: TB-50-B-3-S-6-100-12G.

Model : Temperature sensor PT 100 class B, 3 wires in a sheath of 6 mm diameter and 100 mm length, and with a $\frac{1}{2}$ " thread plug. Measuring range from -50°C to 250°C.

Dimensions



Technical features

Measuring range	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy*	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10K Ω Nominal Beta B25/85 value = 3.695K ±1%

Mounting of wires	single pair 2, 3 or 4 wires
	For T>250°C do not use 4 wires in a
	sheath of 6 mm Ø.
	multipair 4 or 6 wires
	For T>250°C use sheath from 8 mm Ø.

Storage temperature.....from -20°C to +80°C

Sheath......316 L stainless steel, 3/4 to 4/4 hard, no welding

Compression fitting......316 L stainless steel

Thread.....with or without, 1/4, 1/2, Gaz or NPT plug

(other thread on request)

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

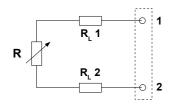
Adjustable mountings......compression fitting welded further along the

sheath, flange, clamp, repleacable probe insert, restricted end, ambient end.

See datasheet.

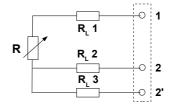
Useful information on thermometry with platinum resistor PT100, PT1000 or NTC.

2-wire connection



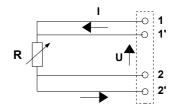
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between temperature and measured real temperature. This connection must be avoided

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Tama °C	Tolerances					
Temp °C	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

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



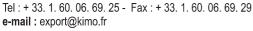
- · Sleeve to weld for food industry
- · Stainless steel union fitting
- 1/2" Gas or NPT thread cuff
- · Thermo-conducting silicone grease
- Calibration certificate
- · Thermowell



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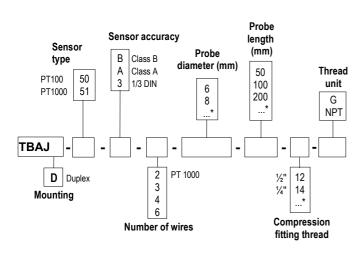


RTD sensor with standard connection head and ambient tip

TBAJ 50 / TBAJD 50

- Temperature sensor with stainless steel sheath and ambient end, with or without compression fitting.
- Measuring range (according to model) from 0°C to +250°C (PT100 and PT1000).
- singlepair (2,3 or 4 wires). • Wire mounting: multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers



^{*} Other dimensions available on request

Example: TBAJ50-B-3-6-100-12G.

Model: Pt 100 temperature sensor, Class B, 3 wires in a sheath of 6 mm diameter and 100 mm length, and with a 1/2" thread plug.

Measuring range from -50°C to 250°C.

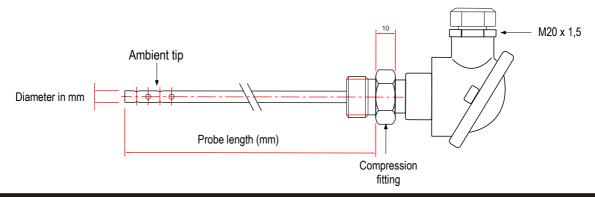
Transmitter features

Operating temperature	from 0°C to +250°C (PT100 and PT1000)
Accuracy	PT100 or PT1000 : see table "Tolerances"
Sensor type	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751single pair 2, 3 or 4 wires multipair 4 or 6 wires
Storage temperature	from 0°C to +80°C
Sheath	316 L stainless steel, no welding, 3/4 to 4/4 hard. Ambient tip of 20 mm. 6 or 8 mm Ø or other on request
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

Adjustable mountings......compression fitting welded further along the sheath, flange, clamp, interchangeable probe system, restricted tip, ambient tip.

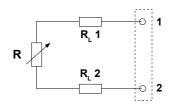
See datasheet.

Dimensions



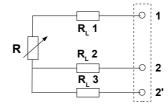
Useful information on thermometry with platinum resistor PT100, PT1000 or NTC.

• 2-wire connection



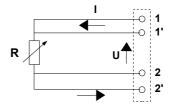
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Tama °C	Tolerances					
Temp °C	Class B		3 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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall mounting support
- · Stainless steel mounting brackets
- $\frac{1}{4}$ " or $\frac{1}{2}$ " Gas screw nut
- Stainless steel compression fitting
- Teflon or stainless steel ferrule for compression fittings



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



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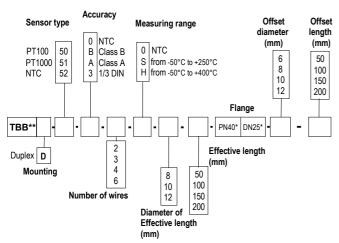
RTD sensor with standard head, with resistive element and mounting flange

TBB 50 / TBBD 50

- Temperature sensor with stainless steel contact tip and mounting flange.
- Measuring range (according to reference) from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- Mounting of wires : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

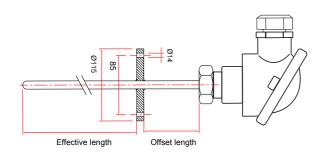


- * Other dimension on request
- ** Other head on request

Example: TBB-50-B-3-S-8-100-PN40DN25-8-50.

Model: PT 100 temperature probe, class B, 3 wires mounted on 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. **Measuring range from -50°C to 250°C**.

Probe dimensions



■ Technical features

Electrical connection.....

Connection head......Aluminium alloy

Adjustable mountings.....replaceable element

Working temperature(according to reference)	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Sensor type	PT100 or PT1000 : Class B, Class A 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10K Ω
	Nominal Beta B25/85 value = 3,695K ±1%
Mounting of wires	single pair 2, 3 or 4 wires For T>250°C do not use 4 wires in 6mm Ø. multipair 4 or 6 wires For T>250°C use sheath from 8 mm.
Storage temperature	from -20°C to +80°C
Contact tip	316 L stainless steel, no welding, from ¾ to 4/4 hard
Compression fitting	316 L stainless steel flange welded on contact tip

application

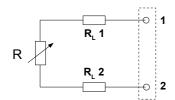
PN 40 DN 25 standard.

Cable gland : M20 x 1,5 IP65 protection

..with or without terminal block 4/20mA 0/10V transmitter as option

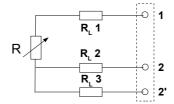
PN and DN to be specified according to

2-wire connection



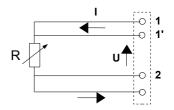
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

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.

■ Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances					
Temp °C	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

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



- Sleeve to weld for food industry
- Stainless steel union fitting
- \bullet ½" Gas or NPT thread cuff
- Thermo-conducting silicone grease
- Calibration certificate
- Thermowell



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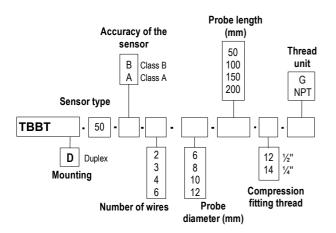
RTD sensor with **standard** head and with **resistive element** for very low temperature application

TBBT 50 / TBBTD 50

- Temperature sensor with or without compression fitting and stainless steel contact tip.
- Measuring range (According to reference) from -200 to +80°C
- Mounting of wires : single pair (2,3 or 4 wires). multipair (4 or 6 wires).

Part numbers

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



^{*} Other dimension on request

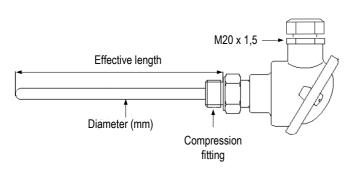
Example: TBBT-50-B-3-8-100-12G.

Model: PT 100 temperature sensor class B, 3 wires with 8 mm

diameter and length with thread of 100 mm.

With compression fitting 12 ½' G. Measuring range from -200°C to +80°C.

Dimensions probe



Technical features

Working temperatures......from -200°C to +80°C (according to reference)

Accuracy......PT100 : see "Tolerances" table

Sensor type.....PT100 : Class B, Class A

as per DIN IEC751

Mounting of wires.....single pair 2, 3 or 4 wires

multipair 4 or 6 wires

Storage temperature......from -20°C to +80°C

Contact tip......316 L stainless steel, no welding, from 3/4

to 4/4 hard

Compression fitting......316 L stainless steel

Thread.....with or without, 1/4, 1/2, Gas or NPT plug

(other thread on request)

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

■ Tolerances* of PT100 probes

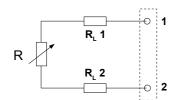
Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

(Tolerances			
Temp °C	CI	ass B	CI	ass A
	± °C	± Ohms	± °C	± Ohms
-100	0.8	0.32	0.35	0.14
-50	0.55	0.22	0.25	0.1
0	0.3	0.12	0.15	0.06
100	0.8	0.3	0.35	0.13
200	1.3	0.48	0.55	0.2
300	1.8	0.64	0.75	0.27
400	2.3	0.79	0.95	0.33

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation

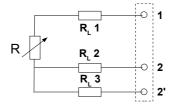
Useful information on thermometry with platinum resistor PT100.

• 2-wire connection



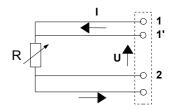
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 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.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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Bent RTD sensor with standard head and at resistive element with or without fitting

Type TBC 50 et TBCR 50

TBC 50 - TBCD 50 - TBCR 50 - TBCRD 50

■ Probe features

- Temperature sensor with bent stainless steel contact tip with or without fitting.
- Measuring range (according to reference) from -80°C to +400°C (PT100 et PT1000). from -20°C to +120°C (NTC).
- Mounting of wires : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Transmitter features

Working temperature......from -80°C to +400°C (PT100 and PT1000)

(according to reference) from -20°C to +120°C (NTC)

Accuracy.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Type of sensor.....PT100 or PT1000 : Class B, Class A 1/3 DIN as per DIN IEC751

CTN : resistance at 25°C, R_{25} = 10K Ω , Nominal Beta B25/85 value = 3,695K ±1%

Mounting of wires.....single pair 2, 3 or 4 wires

For T>250°C do not use 4 wires in a sheath

of 6 mm \emptyset

multipair 4 or 6 wires

For T>250°C use sheath from 8mm.

Storage temperature......from -20°C to +80°C

Contact tip......316 L stainless steel, no welding, 3/4 to 4/4 hard. 90°bent.

Compression fitting......316 L stainless steel

Smooth mounting without fitting: do anything

Mounting with fitting on L2 (See schema): 12 or 14 corresponding to ½'G et ¼'G fittings.

Mounting with fitting on L1 (See schema): 12L1 or 14L1 corresponding to ½'G et ¼'G fittings.



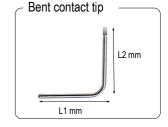
No 4 wires mounting for contact tip 4mm ø.

Thread......1/4, 1/2, male Gas or NPT plug (other thread on request)

Electrical connection......with or without terminal block, 4/20mA 0/10V transmitter as option

Connection head......Aluminium alloy, cable gland : M20 x 1,5, IP65 protection

Adjustable mounting.....See catalogue or data sheet of related mountings.



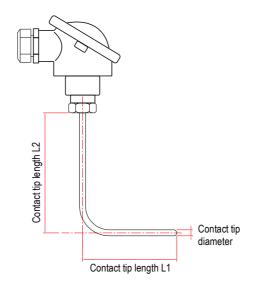
TBC 50

Stainless steel bent sensor with or without multipair mounting

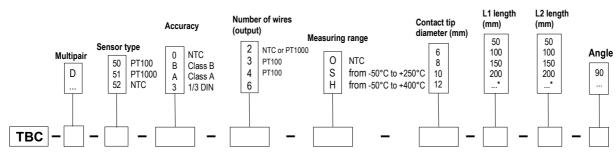


Dimensions probe

L1 mini: to determine according to Ø L2 mini: to determine according to Ø Bending radius: 15 mm Ø 6 mm 24 mm Ø 8 and 10 mm



Part numbers



* Other dimension on request

Example: TBC-51-B-2-S-8-100-100-90

Model: PT1000 temperature sensor Class B, 2 wires, stainless steel contact tip 8 mm Ø bent at 90° and lengths L1 and L2 of 100 mm.

Measuring range from -50 to +250 $^{\circ}\text{C}.$

TBCR

Bent sensor with fitting and with or without multipair mounting



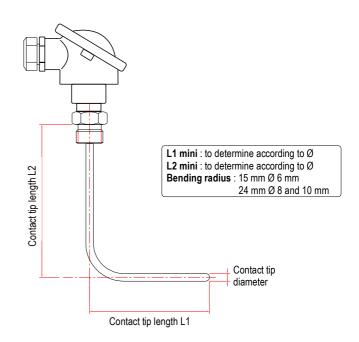


Dimensions probe

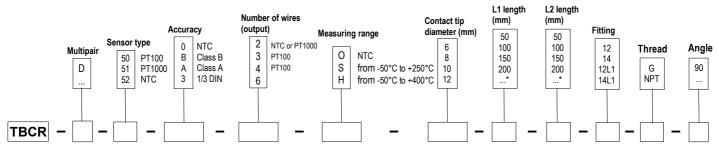
• With fitting on L1

Contact tip length L1

• With fitting on L2



Part numbers

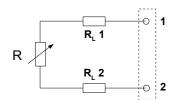


* Other dimension on request

Example : TBCR-51-B-2-S-8-100-100-12-G-90

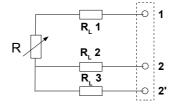
Model: PT1000 temperature sensor Class B, 2 wires, stainless steel contact tip 8 mm Ø bent at 90° and lengths L1 and L2 of 100 mm. With ½' G fitting on L2.

2-wire connection



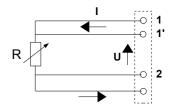
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 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.

■ Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Taman %0.	Tolerances					
Temp °C	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

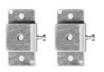
Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- · Teflon 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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RTD sensor with head for contact duct



Supplied with clip for DN 100 duct

Probe features

- Temperature sensor with base for all diameters ducts
- Measuring range (according to reference)

from -50°C to +400°C (PT100 et PT1000). from -20°C to +120°C (NTC).

- Mounting of wires : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

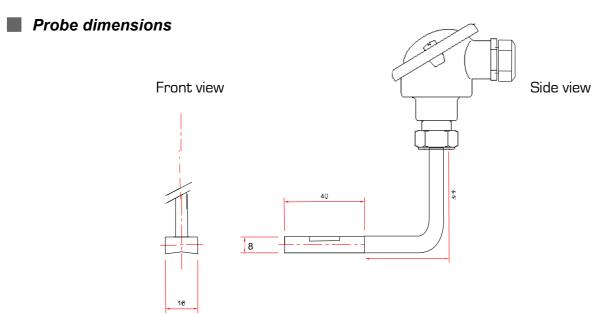
TBCT 50 / TBCTD 50 TMCT 50 / TMCTD 50

Transmitter features

Working temperature(according to reference)	for mounting TBCT type from -50°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC) for mounting TMCT type from -50°C to +250°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10K Ω Nominal Beta B25/85 value = 3,695K ±1%
Mounting of wires	single pair 2, 3 or 4 wires or multipair 4 or 6 wires No 6 wires for H mounting (+400°C) for mounting TMCT type single pair 2, 3 wires or multipair 4 wires only
Storage temperature	from -20°C to +80°C
Height of clearance	45 mm
Duct base	40 x 16 x 8,5 mm V-section Fixing by needle screw AU4G material (aluminium)
Fitting	supplied with stainless steel clip for DN 100 other clip on request
Electrical connection	with or without terminal block 4/20 mA transmitter as option
Connection head	Aluminium alloy cable gland : M20 x 1,5 IP65 protection

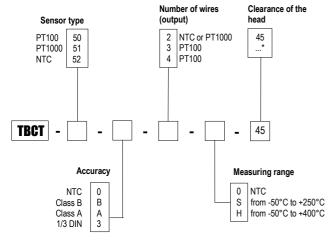
TBCT 50 & TBCTD 50

Temperature sensor with standard head and with contact for duct



Références

• Single pair sensor - Ref. TBCT 50

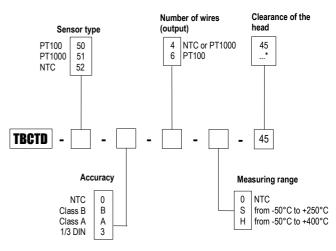


* Other on request

Example: TBCT51-B-2-S-45

Model : PT1000 temperature sensor Class B, 2 wires, clearance of the head at 45° . Measuring range from -50 à +250°C.

• Multipair sensor- Ref. TBCTD 50



* Other on request

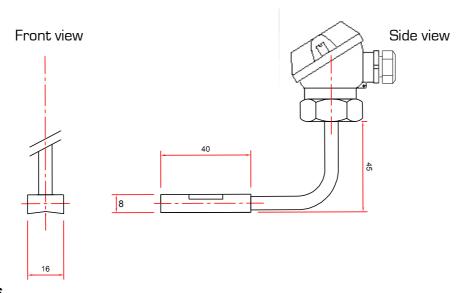
Example : TBCTD51-B-4-S-45

Model: PT1000 temperature sensor Class B, 4 wires, clearance of the head at 45°. Measuring range from -50 à +250°C.

TMCT 50 & TMCTD 50

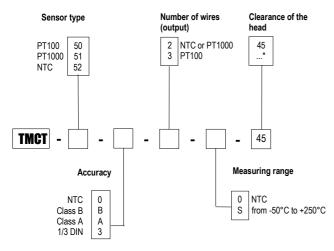
Temperature sensor with miniature head and with contact for duct

Dimensions probe



Part numbers

• Single pair sensor - Ref. TMCT 50

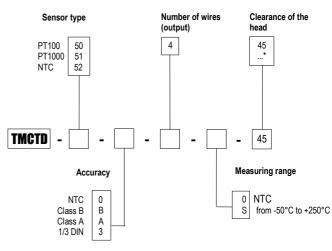


* Other on request

Example: TMCT51-B-2-S-45

Model: PT1000 temperature sensor Class B, 2 wires, clearance of the head at 45° . Measuring range from -50 à +250°C.

• Multipair sensor – Ref. TMCTD 50



* Other on request

Example : TMCTD51-B-4-S-45

Model : PT1000 temperature sensor Class B, 4 wires, clearance of the head at 45° . Measuring range from -50 à +250°C.

Ref. FTang - TBCT50 - TBCTD50 - TMCT50 - TMCTD50 - 03/08 B - RCS (24) Périgueux B349 282 095 Non-contractual document - We reserve the right to modify the characteristics of our products without prior notice.

■ Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

T °C	Tolerances					
Temp °C	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C
\	

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- Stainless steel compression fitting
- Teflon 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
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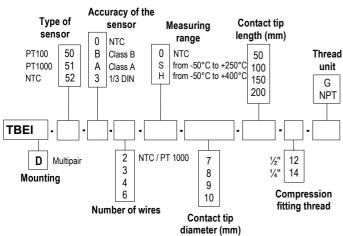


RTD sensor with **standard head** and with **resistive element** with **interchangeable mountings**

TBEI 50 - TBEID 50

- Temperature sensor with or without compression fitting and stainless steel contact tip.
- Measuring range (According to reference)
 from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- Mounting of wire : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers



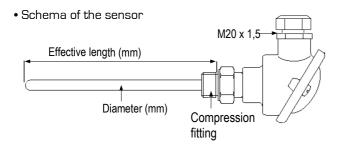
* Other dimensions on request

Example: TBEI-50-B-3-S-7-100-12G.

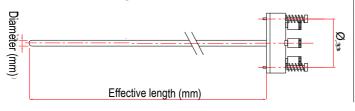
Model : PT 100 temperature sensor class B, with 3 wires in a sheath of 7 mm diameter and 100 mm length (including thread), with a $\frac{1}{2}$ "G thread plug and with interchangeable element of 4 mm \varnothing and 140 mm length.

Standard measuring range from -50°C to 250°C.

Dimensions



• Internal interchangeable element schema



Technical features

(According to reference)	from -20°C to +400°C (P1100 and P11000)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 CTN : resistance à 25°C, R_{25} = 10K Ω

Mounting of wire	single pair 2, 3 or 4 wires
	For T>250°C do not use 4 wires in a sheath
	of 6mm Ø.
	multipair 4 or 6 wires
	For T>250°C use sheath from 8 mm Ø.

Storage temperature......from -20°C to +80°C

Contact tip......316 L stainless steel, no welding, 3/4 to 4/4 hard

Interchangeable element......316 L stainless steel

Diameter: according to contact tip outer diameter

Nominal Beta B25/85 value = 3,695K ±1%

Interchangeable element Ø	Contact tip minimum Ø		
4 mm	7 mm		
5 mm	8 mm		
6 mm	9 mm		
7 mm	10 mm		

LU length: contact tip length + 40 mm

Compression fitting......316 L stainless steel

Thread.....with or with out, 1/4, 1/2, male au pas Gas or

NPT plug (other tread on request)

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

Adjustable mountings......compression fitting welded further along the sheath, flange, clamp, repleacable probe

insert, restricted end, ambient end.

See data sheet.

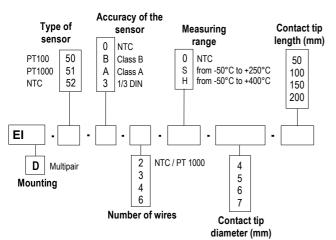


Interchangeable element at resistive element

EI 50 – EID 50

- Measuring range (according to reference) from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- Mounting of wire : simple (2,3 or 4 wires). duplex (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers



* Other dimension on request

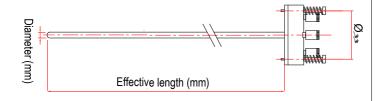
Length LU: contact tip length + 40 mm

Example: EI-50-B-3-S-7-100.

Model: Interchangeable element PT 100 class B, 3 wires diameter 7mm and thread length included of 100 mm.

Standard measuring range from -50°C to 250°C.

Dimensions



Technical features

Working temperature(According to reference)	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Exactitudes	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10K Ω Nominal Beta B25/85 value = 3.695K ±1%

Mounting of wire	single pair 2, 3 or 4 wires
, v	For T>250°C do not use 4 wires in a sheath
	of 6mm Ø.
	multipair 4 or 6 wires
	For T>250°C use sheath from 8 mm Ø.

Storage temperaturefrom -20°C to +80°C	
Contact tip316 L stainless steel, no welding, 3/4 to 4/4 har	ď
Interchangeable element316 L stainless steel	

Diameter: according to contact tip outer diameter

Interchangeable	Contact tip
element Ø	minimum Ø
4 mm	7 mm
5 mm	8 mm
6 mm	9 mm
7 mm	9 111111
I II I enath contact	tin length 4 Main mm

Electrical connection......with or without terminal block

Transmitter 4/20mA 0/10V as option

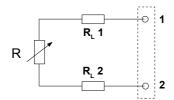
with or without terminal block put on DIN 42 mm

Ø kit

Pitch 33 mm.

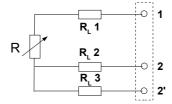
Useful information on thermometry with platinum resistor PT100, PT1000 or NTC.

• 2-wire connection



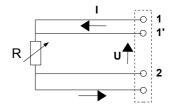
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

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.

Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) et DIN 43760 (1980).

Town °C	Tolerances					
Temp °C	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- · Teflon 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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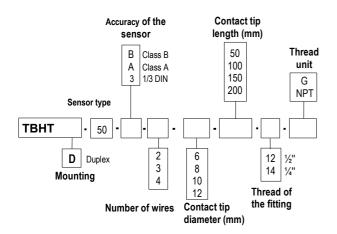
RTD sensor with standard head and **resistive element** for very high temperature use

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

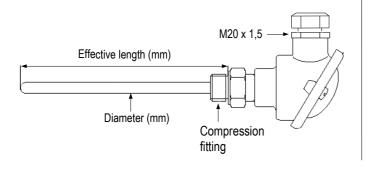
Example: TBHT-50-B-3-8-100-12G.

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 2x2 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 with out, 1/4, 1/2, male au pas Gas or NPT plug (other tread on request)
Electrical connection	with or without terminal block Transmitter 4/20mA 0/10V as option

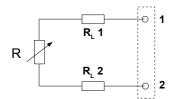
■ Tolerance of PT100 probes

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

(Tolerances					
Temp °C	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

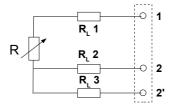
Useful information on thermometry with platinum resistor PT100.

• 2-wire connection



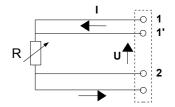
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 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

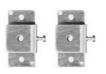


Regulated current is going through 11' and 22' terminals and the measurement is made at the sensor terminals, so none of the line resistors are taken into account. This is the most accurate connection.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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RTD sensor with standard head, resistive element and clamp fitting

TBRC 50 / TBRCD 50

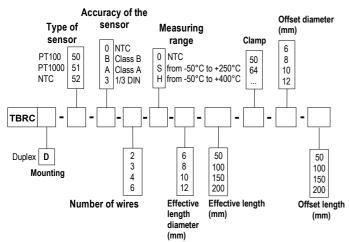
- Temperature sensor with stainless steel contact tip and clamp fitting.
- Measuring range (According to reference) from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).

CE

- Mounting of wire : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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



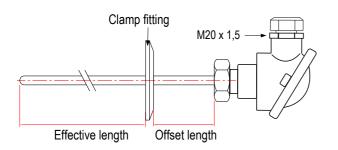
^{*} Other dimensions on request

Example: TBRC-50-B-3-S-6-100-50-6-50.

Model: PT 100 temperature sensor, class B, 3 wires mounted on contact tip with an effective length of 100 mm and 6 mm \varnothing and with an offset length of 50 mm and 6 mm \varnothing . Contact tip with clamp fitting of 50,5 mm \varnothing for a ferrule DN from 25 to 42,4 mm.

Standard measuring range from -50°C to 250°C.

Dimensions



Technical features

Technical real	nes .
Working temperature(According to reference)	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10K Ω Nominal Beta B25/85 value = 3,695K ±1%
Mounting of wire	For T>250°C do not use 4 wires in a sheath of 6mm Ø. multipair 4 or 6 wires For T>250°C use sheath from 8 mm Ø.
Storage temperature	from -20°C to +80°C
Contact tip	316 L stainless steel, no welding, 3/4 to 4/4 hard
Clamp fitting	stainless steel 316 L - Standard 50 : Solid end caps 50,5 mm Ø for ferrules DN 25 at 42,4mr 64 : Solid end caps 64 mm Ø for ferrule DN 48,3 at 51mm (other clamp solid end caps on request) - Accessories Ferrule and clamp on request
Thread	1/4, 1/2, male Gas or NPT plug (other tread on request)
Electrical connection	with or without terminal block Transmitter 4/20mA 0/10V as option
Connection head	aluminium alloy cable gland : M20 x 1,5

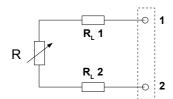
IP65 protection

Adjustable mountings.....

.See catalogue or data sheet

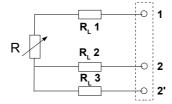
of specific mountings.

• 2-wire connection



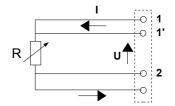
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 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.

Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) et DIN 43760 (1980).

			To	oleranc	es	
Temp °C	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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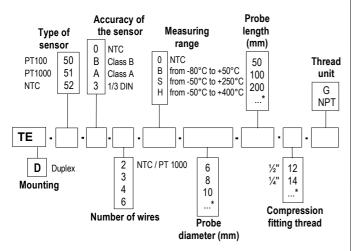
RTD sensor with waterproof connection head

TE 50 / TED 50

- Temperature sensor with stainless steel sheath, with or without compression fitting.
- Measuring range from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC).
- Mounting of wires: single pair (2, 3 or 4 wires).
 multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

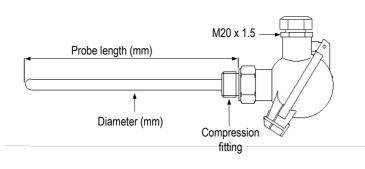


^{*} Other dimensions on request

Example: TE-50-B-3-S-6-100-12G.

Model : Temperature sensor PT 100 class B, with 3 wires in a sheath of 6 mm diameter and 100 mm length, and with a $\frac{1}{2}$ "G thread plug. Measuring range from -50°C to 250°C.

Dimensions



Technical features

Measuring range	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy*	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10KΩ

Mounting of wires.....single pair 2, 3 or 4 wires

For T>250°C do not use 4 wires in a

sheath of 6 mm Ø.

multipair 4 or 6 wires

Storage temperature......from -20°C to +80°C

Sheath......316 L stainless steel, 3/4 to 4/4 hard, no welding

Compression fitting......316 L stainless steel

Thread.....with or without, 1/4, 1/2, Gaz or NPT plug

(other thread on request)

Electrical connection.....with or without terminal block

transmitter 4/20mA 0/10V as option

For T>250°C use sheath from 8 mm Ø.

Connection head......Aluminium alloy

cable gland: M20 x 1.5

IP68 protection

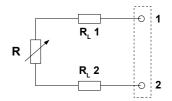
Adjustable mountings......compression fitting welded further along the

sheath, flange, clamp, repleacable probe insert, restricted end, ambient end.

See datasheet.

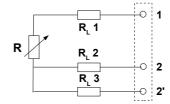
CE

2-wire connection



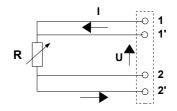
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Tama °C			Tole	rances		
Temp °C	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- $\frac{1}{4}$ " or $\frac{1}{2}$ " Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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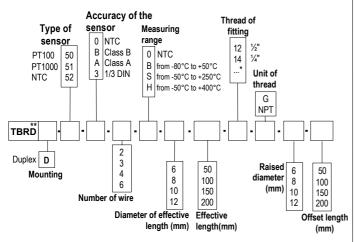
RTD sensor with standard head, resistive element and offset fitting

TBRD 50 / TBRDD 50

- Temperature sensor with stainless steel contact tip and offset compression fitting.
- Measuring range (According to reference)from -80°C to +400°C (PT100 and PT1000). from -20°C to +120°C (NTC).
- Mounting of wire : single pair (2,3 or 4 wires). multipair (4 or 6 wires).
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

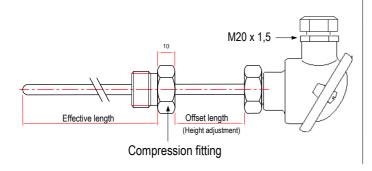


- * Other dimension on request
- ** Other head on request

Example: TBRD-50-B-3-S-6-100-12-G-6-50.

Model: PT 100 temperature sensor, class B, 3 wires mounted on contact tip an effective length of 100 mm and 6 mm Ø and with a raised length of 50 mm and 6 mm Ø. Contact tip with 1/2' gas fitting. Standard measuring range from -50°C to 250°C.

Dimensions



Technical features

Working temperature(According to reference)	from -80°C to +400°C (PT100 and PT1000) from -20°C and +120°C (NTC)
(According to reference)	110111 -20 C and +120 C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table
	NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A,

1/3 DIN as per DIN IEC751 NTC : resistance à 25°C, $R_{_{25}}$ = 10K Ω

Nominal Beta B25/85 value = 3,695K ±1%

Mounting of wire	single pair 2, 3 or 4 wires			
	For T>250°C do not use 4 wires in a sheath			
	of 6mm Ø.			
	multipair 4 or 6 wires			
	For T>250°C use sheath from 8 mm Ø.			

Storage temperature......from -20°C to +80°C

Contact tip......316 L stainless steel, no welding, 3/4 to 4/4 hard

Compression fitting.....stainless steel 316 L

Thread......1/4, 1/2, male Gas or NPT plug

(other tread on request)

Electrical connection......with or without terminal block

Transmitter 4/20mA 0/10V as option

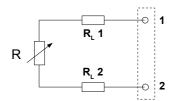
Connection head......Aluminium alloy

cable gland: M20 x 1,5

IP65 protection

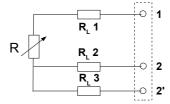
Adjustable mountings.....interchangeable element

• 2-wire connection



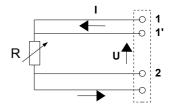
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

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.

Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) et DIN 43760 (1980).

			To	oleranc	es	
Temp °C	Class B		Class A		1/3 DIN	
	± °C	± Ohms	± °C	± Ohms	± °C	± Ohms
-100	8.0	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

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



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



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RTD sensor with **DIN 43650** head and resistive element THIR 50 / THIRD 50

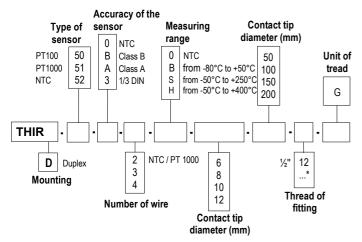
• Temperature sensor with or without compression fitting and stainless steel contact tip.

CE

- Measuring range (According to references) from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC)
- Mounting of wire : single pair (2,3 or 4 wires). multipair (2x2 wires only).
- For other type of resistance PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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



* Other dimensions on request

Example: THIR-50-B-3-S-6-100-12G.

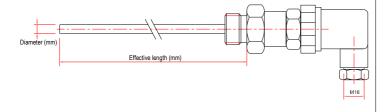
Model: PT 100 temperature sensor, class B, 3 wires with 6 mm

diameter and length including thread of 100 mm.

With ½' G compression fitting.

Standard measuring range from -50°C to 250°C.

Dimensions

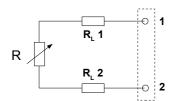


Technical features

Working temperature(According to reference)	.from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)				
Accuracy	.PT100 or PT1000 : See "Tolerances" table NTC : See "Tolerances" table				
Type of sensor	.PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance à 25°C, R_{25} = 10KΩ Nominal Beta B25/85 value = 3,695K ±1%				
Mounting of wire	single pair 2, 3 or 4 wires For T>250°C do not use 4 wires in a sheath of 6mm Ø. multipair 4 wires only For T>250°C use sheath from 8 mm Ø.				
Storage temperature	.from -20°C to +80°C				
Contact tip	.316 L stainless steel, no welding, 3/4 to 4/4 hard				
Compression fitting	.stainless steel 316 L				
Thread	with or without, ½' G in standard other on request				
Electrical connection	.Attached tinned brass eyelet on flange				
Connection head	rectangular in glass fibre reinforced plastic cable gland : P G11 or M16 IP65 protection (with seal) working temperature : from -40°C to +125°C				

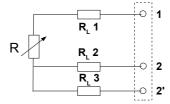
Adjustable mountings.....on request

• 2-wire connection



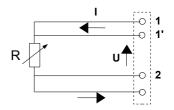
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

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.

Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) et DIN 43760 (1980).

			To	oleranc	es	
Temp °C	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

*Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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RTD sensor with miniature connection head

TM 50 / TMD 50

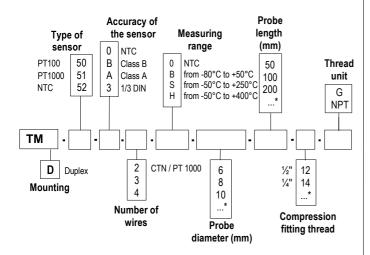
- Temperature sensor with stainless steel sheath, with or without compression fitting.
- Measuring range from -80°C to +400°C (PT100 and PT1000).

from -20°C to +120°C (NTC).

- Mounting of wires: single pair (2, 3 or 4 wires).
 multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

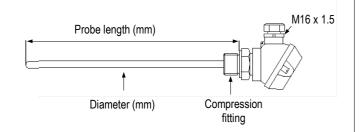


^{*} Other dimensions on request

Example: TM-50-B-3-S-6-100-12G.

Model : Temperature sensor PT 100 class B, with 3 wires in a sheath of 6 mm diameter and 100 mm length, and with a ½"G thread plug. Measuring range from -50°C to 250°C.

Dimensions



Technical features

Measuring range	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy*	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Type of sensor	PT100 or PT1000 : Class B, Class A, 1/3 DIN as per DIN IEC751 NTC : resistance at 25°C, R_{25} = 10KΩ Nominal Beta B25/85 value = 3.695K ±1%

Mounting of wires	single pair 2, 3 or 4 wires
	For T>250°C do not use 4 wires in a
<u></u>	sheath of 6mm Ø.
	multipair 4 wires only
	For T>250°C use sheath from 8mm Ø.

Storage temperature......from -20°C to +80°C

Sheath......316 L stainless steel, 3/4 to 4/4 hard, no welding

Compression fitting......316 L stainless steel

Thread.....with or without, 1/4, 1/2, Gaz or NPT plug

(other thread on request)

Electrical connection.....with or without terminal block

transmitter 4/20mA 0/10V as option

Connection head......Aluminium alloy

cable gland: M16 x 1.5

IP65 protection

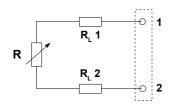
Adjustable mountings......compression fitting welded further along the

sheath, flange, clamp, repleacable probe insert, restricted end, ambient end.

See datasheet.

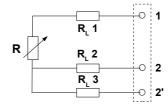
Useful information on thermometry with platinum resistor PT100, PT1000 or NTC.

2-wire connection



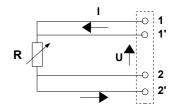
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Tama °C	Tolerances					
Temp °C	CI	ass B	CI	ass 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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- ¼ " or ½" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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RTD sensor CE with plug-in connection head and at resistive element

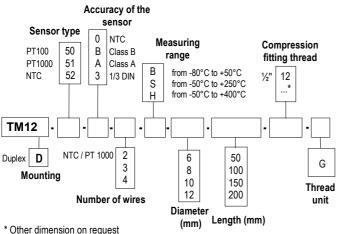
TM 12 50 / TM 12 D 50

- Temperature sensor with or without compression fitting et stainless steel contact tip.
- Measuring range (according to reference): from -80°C to +400°C (PT100 and PT1000).
 from -20°C to +120°C (NTC)
- Mounting of wires : simple (2, 3 or 4 wires). multipair (4, 6 or 8 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

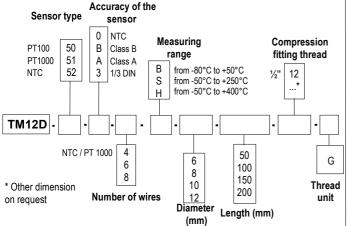
• TM 12



Example : TM12-50-B-3-8-S-100-12G.

Model: PT 100 temperature sensor class B, 3 wires with 8 mm diameter and length with thread of 100 mm. With compression fitting ½ G. Measuring range from -50°C to 250°C.

• TM 12 D



Example : TM12D-50-B-6-S-8-100-12G.

Model: PT 100 temperature sensor class B, multipair mounting, 6 wires with 8 mm diameter and length with thread of 100 mm. With compression fitting ½' G. Measuring range from -50°C to 250°C.

■ Technical features

	from -80°C to +400°C (PT100 and PT1000) from -20°C to +120°C (NTC)
Accuracy	PT100 or PT1000 : see "Tolerances" table NTC : see "Tolerances" table
Sensor type	PT100 orPT1000 : Class B, Class A, 1/3 DIN as per DIN IEC 751 NTC: resistance at 25°C, R_{25} = 10K Ω Nominal Beta value B25/85 = 3,695K ±1%
Mounting of wire	single pair 2, 3 or 4 wires
<u> </u>	For T>250°C do not use 4 wires in a sheath of 6mm Ø. multipair 4, 6 or 8 wires 8 wires mounting from 8 mm.
Storage temperature	from -20°C to +80°C
Contact tip	316 L stainless steel, without welding, from ¾ to 4/4 hard Other on request
Compression fitting	316 L stainless steel
Thread	with or without, ½' G in standard Other on request
Electrical connection	shielded PVC cord of 2 metres knurled head screw

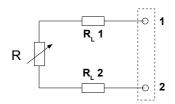
Contact: nickeled CuZm with gilding

of 0.8 µm

Adjustable mountings......flange, offset fitting, perforated, etc...

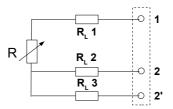
Useful information on thermometry with platinum resistor PT100.

2-wire connection



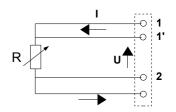
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and temperature. This connection must be avoided.

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will 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.

Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0,5°C
from 0°C to +70°C	± 0,2 °C
from +70°C to +100°C	± 0,5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Tolerance* of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances					
Temp °C	CI	Class B		Class A		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	8.0	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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RTD sensor with noryl connection head for chemical or food industry

TP 50 / TPD 50

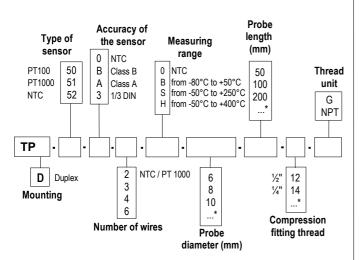
- Temperature sensor with stainless steel sheath, with or without compression fitting.
- Measuring range from -80°C to +400°C (PT100 and PT1000).

from -20°C to +120°C (NTC).

- Mounting of wires: single pair (2, 3 or 4 wires).
 multipair (4 or 6 wires).
- For other resistor types PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers

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

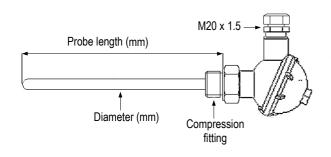


^{*} Other dimensions on request

Example: TP-50-B-3-S-6-100-12G.

Model: Temperature sensor PT 100 class B, with 3 wires in a sheath of 6 mm diameter and 100 mm length, and with a ½"G thread plug. Measuring range from -50°C to 250°C.

Dimensions



Technical features

 $\textbf{Measuring range}.....from -80 ^{\circ}C \text{ to } +400 ^{\circ}C \text{ (PT100 and PT1000)}$

from -20°C to +120°C (NTC)

Accuracy*.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Type of sensor.....PT100 or PT1000 : Class B, Class A,

1/3 DIN as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω

Nominal Beta B25/85 value = 3.695K ±1%

CE

Mounting of wires.....single pair 2, 3 or 4 wires



For T>250°C do not use 4 wires in a

sheath of 6 mm Ø.

multipair 4 or 6 wires

For T>250°C use sheath from 8 mm Ø.

Storage temperature......from -20°C to +80°C

Sheath......316 L stainless steel, 3/4 to 4/4 hard,

no welding

Compression fitting......316 L stainless steel

Thread.....with or without, 1/4, 1/2, Gaz or NPT plug

(other thread on request)

Electrical connection.....with or without terminal block

transmitter 4/20mA 0/10V as option

Connection head......Noryl resin

cable gland: M20 x 1.5

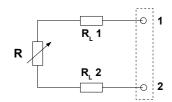
IP65 protection

Adjustable mountings......compression fitting welded further along the

sheath, flange, clamp, repleacable probe insert, restricted end, ambient end.

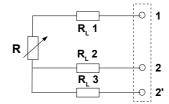
See datasheet.

• 2-wire connection



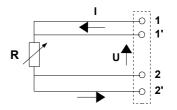
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

3-wire connection



This connection involves identical line resistors (RL1-RL2-RL3), RL2 + RL3 allow you to measure the line resistance that will be substracted 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.

Tolerance of PT100 and PT1000 probes.

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

Town °C	Tolerances					
Temp °C	CI	ass 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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e: at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

Tolerances of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

Accessories (See Datasheet)

- Transmitter output 4/20 mA or 0/10V
- · Wall fixing support
- · Stainless steel mounting brackets
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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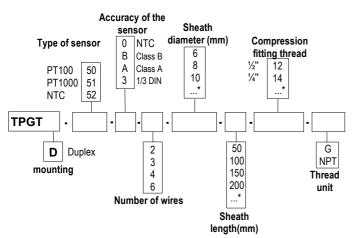


Temperature probe at resistive element for aggressive environment

TPGT 50 - TPGTD 50

- Temperature sensor with or without compression fitting and contact tip covered with a PFA sheath
- Measuring range from -50°C to +250°C (PT100 and PT1000) from -20 °C to +120 °C (NTC)
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers



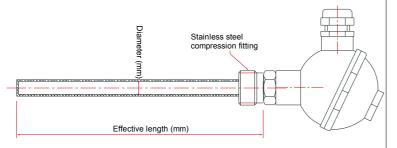
*Other dimension on request

Example: TPGT50-B-3-6-500

Model: PT 100 temperature sensor class B, 3 wires, contact tip diameter 6 mm and length 500 mm with a PFA sheath of 500 mm length.

Measuring range: from -40 to +120 °C

Dimensions



Technical features

Operating temperature.....from -50°C to +250°C (PT100 and PT1000)

(other on request)

from -20°C to +120°C (NTC)

Accuracy.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Type of sensor.....PT100 or PT1000 : Class B, Class A,

1/3 DIN as per DIN IEC751

NTC : resistance at 25°C, R_{25} = 10K Ω Nominal Beta B25/85 value = 3,695K ±1%

Mounting of wire.....simple pair 2, 3 or 4 wires

multipair: 4 or 6 wires

Storage temperature......from -20°C to +80°C

Contact tip.....stainless steel 316 L covered with PFA

(perfluoralkoxy) sheath

Max. temperature at short term use: 280 °C

Softening at +/- 327 °C

Compression fitting.....stainless steel 316 L

Thread......1/4, 1/2, male Gas or NPT plug

(other tread on request)

Electrical connection......with or without terminal block

Transmitter 4/20mA 0/10V as option

Connection head.....noryl resin (phenyl polyoxyd)

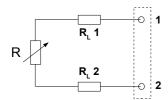
Cable gland: M20 x 1,5 temperature: from -40 to +135 °C

IP 65 protection

Adjustable mountings.....angled probe, interchangeable element,

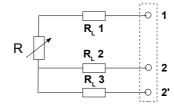
Offset head

• 2-wire connection



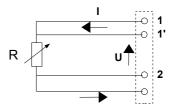
This is the simplest way, but line resistors (RL1 and RL2) are connected to the sensor in a series circuit. The addition of RL1 + RL2, leads to an off-set between measured temperature and real temperature. This connection must be avoided.

• 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.

■ Tolerances* of PT100 and PT1000 probes

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances					
Temp °C	CI	ass 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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C from 0°C to +70°C	± 0.5°C ± 0.2 °C
from +70°C to +100°C	± 0.5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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CE

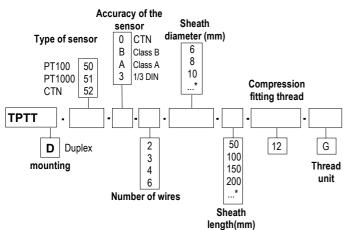


Temperature probe at resistive element for aggressive environment

TPTT 50 – TPTTD 50

- Temperature probe with PFA compression fitting and contact tip
- Measuring range from -50°C to +250°C (PT100 and PT1000) from -20 °C to +120 °C (NTC)
- For other resistor type PT25, PT50, PT500, PT200 or NI, please contact us.

Part numbers



*Other dimension on request

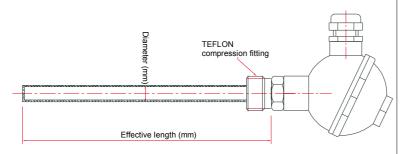
Example: TPTT50-B-3-6-500

Model: Temperature probe PT100 Class B, 3 wires, contact tip diameter 6

mm and length 500 mm PFA sheath of 500 mm length.

Measuring range : from -40 to +120 $^{\circ}\text{C}$

Dimensions



Technical features

Operating temperature.....from -50°C to +250°C (PT100 and PT1000)

(other on request)

from -20°C to +120°C (NTC)

Accuracy.....PT100 or PT1000 : see "Tolerances" table

NTC: see "Tolerances" table

Type of sensor.....PT100 or PT1000 : Class B, Class A,

1/3 DIN as per DIN IEC751

NTC: resistance at 25°C, R_{25} = 10K Ω

Mounting of wire.....simple pair 2, 3 or 4 wires

multipair: 4 or 6 wires

Storage temperature......from -20°C to +80°C

Contact tip.....stainless steel 316 L covered with PFA

(perfluoralkoxy) sheath

Max. temperature at short term use : 280 °C

Softening at +/- 327 °C

Compression fitting.....polythetrafluorethylene PTFE

Thread......1/4, 1/2, male Gas or NPT plug

(other tread on request)

Electrical connection.....with or without terminal block

Transmitter 4/20mA 0/10V as option

Connection head.....noryl resin (phenyl polyoxyd)

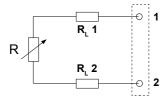
Cable gland: M20 x 1,5

temperature: from -40 to +135 °C

IP 65 protection

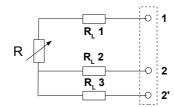
Adjustable mountings......angled probe, interchangeable element,

Offset head



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.

■ Tolerances* of PT100 and PT1000 probes

Norms as per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980).

	Tolerances					
Temp °C	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

Resistance values for PT1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). I.e : at 0°C for Class B PT1000 \pm 0.3°C \rightarrow \pm 1.2 Ω

■ Tolerances* of NTC probes

Measuring range °C	Tolerances °C
from -20°C to 0°C	± 0.5°C
from 0°C to +70°C	± 0.2 °C
from +70°C to +100°C	± 0.5 °C

*all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Accessories (See data sheet)

- Transmitter output 4/20 mA or 0/10V
- Wall fixing support
- Stainless steel mounting bracket
- 1/4 " or 1/2" Gas screw nut
- · Stainless steel compression fitting
- Teflon 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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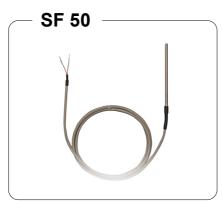
Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

CE

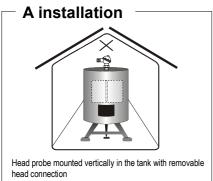
Temperature probe at resistive element for wine application

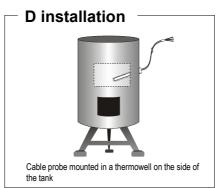
TM 50 / TPV 50 / SF 50

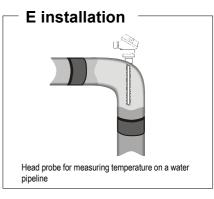


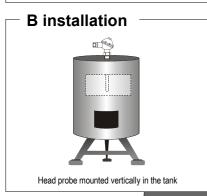












- Head or wire temperature probe with or without compression fitting and stainless steel contact tip
 Probe with aluminium head (TM 50) or noryl resin (TPV 50),
- PT 100 Class B, IP65.

 Wire probe PT 100 or PT 1000 Class B with Contact tip mounted on PVC cable
- Measuring range

from -50°C to +250°C (TM 50 and TPV 50). from -40°C to +120°C (SF 50).

• Mounting of element : simple (2 or 3 wires).



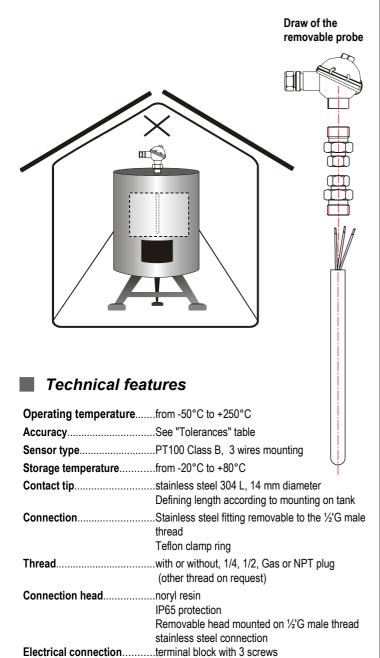
C installation

Head probe mounted in a thermowell on the side of the tank

TPVD 50

$^-$ Installation A $^-$

Head probe mounted vertically in the tank with **removable** head connection



Part numbers

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

TPVD

Contact tip length (mm)	1000 1250 1500 2000 *
S - 14* -	

* Other dimension on request

Example: TPVD-50-B-3-S-14-1000.

Model: PT 100 temperature probe class B, 3 wires with diameter of 14 mm and contact tip length of 1000 mm.

Accessories...........connection cable (lyflex 3 x 0,75 mm²)

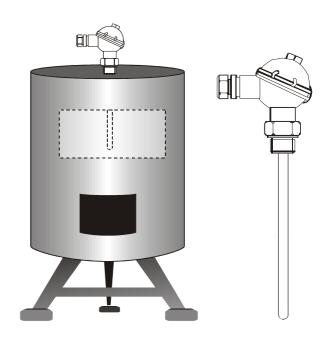
Welding sleeve

Standard measuring range from -50°C to 250°C.

TPV 50

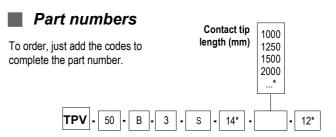
Installation B ———

Head probe mounted vertically in the tank



Technical features

Operating temperature	from -50°C to +250°C
Accuracy	See "Tolerances" table
Sensor type	PT100 Class B, 3 wires mounting
Storage temperature	from -20°C to +80°C
Contact tip	stainless steel 304 L, 14 mm diameter Defining length according to mounting on tank
Connection head	Stainless steel fitting to the ½G male thread noryl resin IP65 protection terminal block with 3 screws
Accessories	connection cable (lyflex 3 x 0,75 mm²) Welding sleeve



* Other dimension on request

Example: TPV-50-B-3-S-14-1000.

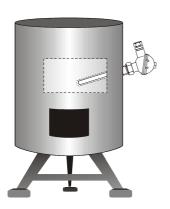
Model: PT 100 temperature probe class B, 3 wires with diameter of 14 mm and contact tip length of 1000 mm.

Standard measuring range from -50°C to 250°C.

TPV 50

Installation C -

Head probe mounted in a thermowell on the side of the tank



Technical features

Operating temperature	.from -50°C to +250°C
Accuracy	See "Tolerances" table
Sensor type	.PT100 Class B, 3 wires mounting
Storage temperature	.from -20°C to +80°C
Contact tip	stainless steel 304 L, diameter 6 mm Defining length according to mounting on tank
Connection head	Stainless steel connection to ½'G male thread noryl resin IP65 protection
Electrical connection	terminal block with 3 screws
Accessories	.connecting cable (lyflex 3 x 0,75 mm ²)

Thermowell features

Contact tip	stainless steel 304 L, diameter of 21,3 mm
·	Defining length according to mounting on tank
Connection	Connection to weld on the tank
	Probe side : ½'G female thread
Optional	shrink at 8 mm at the end of the thermowell



50 | B | 3 |

* Other dimension on request

Example: TPV-50-B-3-S-14-1000.

Model: PT 100 temperature probe class B, 3 wires with \emptyset 6 mm and

S

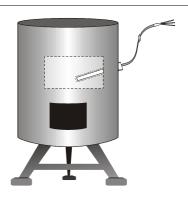
contact tip length of 1000 mm.

Standard measuring range from -50°C to 250°C.

SF 50

Installation D -

Cable probe mounted in a thermowell on the side of the tank



Technical features

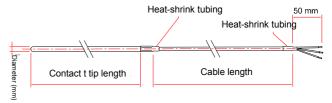
Operating temperature......from -40°C to +120°C Accuracy.....See "Tolerances" table **Sensor type**......PT100 or PT1000 Storage temperature......from -20°C to +80°C Working temperature

of cable......PVC : from -40°C to +120°C

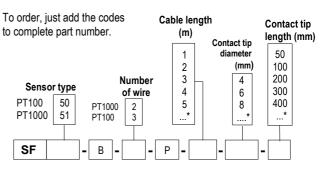
Contact tip.....stainless steel 316 L, waterproof crimping with

heat-shrink tubing

Dimensions



Part numbers



* Other dimension on request

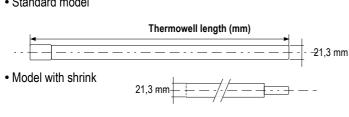
Example: SF51-B-2-P-1-4-100

Model: PT1000 temperature probe class B, 2 wires, PVC cable of 1 m length. Stainless steel contact tip of Ø 4 mm and length of 100 mm.

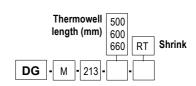
Measuring range from -40 to +120°C.

Wine growing thermowell

Standard model



Part numbers

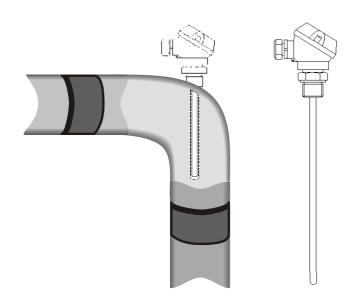


Example: DG-M-213-500-RT.

Model: thermowell with sleeve weld on the tank. Contact tip diameter of 21,3 mm and length of 500 mm with shrink of 8 mm.

Installation E

Head probe for measuring temperature on a water pipeline

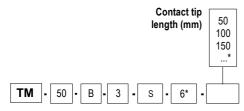


Technical features

Operating temperature	from -50°C to +250°C
Accuracy	See "Tolerances" table
Sensor type	PT100 Class B, 3 wires mounting
Storage temperature	from -20°C to +80°C
Contact tip	stainless steel 316 L, diameter of 6 mm Optional : Welding sleeve
	Stainless steel fitting to the ½'G male threadminiature head in aluminium alloy IP65 protection
	terminal block with 3 screws connection cable (lyflex 3 x 0,75 mm²) Welding sleeve

Part numbers

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



* Other dimension on request

Example: TM-50-B-3-S-6-50.

Model: PT 100 temperature probe class B, 3 wires with diameter of 6

mm and contact tip length of 50 mm.

Standard measuring range from -50°C to 250°C.

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Tolerances* of Pt100 and Pt1000 resistive probes

As per IEC 751 (1993), BS 1904 (1984) and DIN 43760 (1980) norms

T	Tolerances			
Temp °C	Class B			
	± °C	± Ohms		
-100	0,8	0,32		
-50	0,55	0,22		
0	0,3	0,12		
100	0,8	0,3		
200	1,3	0,48		
300	1,8	0,64		
400	2,3	0,79		

Resistance values for Pt1000 (Ω) must be multiplied by 10 for the same corresponding temperature value (°C). For example: at 0°C for Class B Pt1000 \pm 0,3°C \rightarrow \pm 1,2 Ω

Ref. FT -wine-application - 03/07 A - RCS (24) Périgueux B349 282 095 Non-contractual document - We reserve the right to modify the characteristics of our products without prior notice.

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^{*}all accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.



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Accessories for RTD temperature sensors

— Connections —

■ Watertight connections

This stainless steel compression fitting allows watertight connection of a temperature sensor using a stainless steel not adjustable ferrule or a teflon adjustable

ferrule.







Technical features

Working temperature:

Stainless steel ferrule (316L).....from -50°C to +400°C (Not adjustable) Teflon ferrule (PTFE)......from -50°C to +250°C (Adjustable)





Part numbers

- I art mambers			
Probe Ø (mm)	Cylindrical gas	Stainless steel ferrule	Teflon ferrule
3	1/8"	RCI-3/18	RCT-3/18
3	1/4"	RCI-3/14	RCT-3/14
4	1/8"	RCI-4/18	RCT-4/18
4	1/4"	RCI-4/14	RCT-4/14
4	3/8"	RCI-4/38	RCT-4/38
6	1/8"	RCI-6/18	RCT-6/18
6	1/4"	RCI-6/14	RCT-6/14
6	3/8"	RCI-6/38	RCT-6/38
6	1/2"	RCI-6/12	RCT-6/12
8	1/4"	RCI-8/14	RCT-8/14
8	1/2"	RCI-8/12	RCT-8/12
10	1/2"	RCI-10/12	RCT-10/12
12	1/2"	RCI-12/12	RCT-12/12
14	1/2"	-	RCT-14/12
	· · · · · · · · · · · · · · · · · · ·	·	

Stainless steel thermowells

Technical features

Working temperature......from -80°C to +400°C

Protective duct......stainless steel 316 L, Ø 9x1 or Ø 6x1 mm.

Mounting.....welded

Contact tip......stainless steel 316L, no welding

Process connection.......stainless steel ½" G male (other connection on request)

Probe connection......stainless steel ½" G female (other connection on request) or or fixing screw.

Options:

- Treatment with teflon, halar etc...
- Swaging

Accessories:

Thermo - conducting silicone grease 200g (Part number GST)



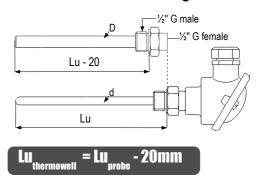
Working temperature: from -60°C to +200°C Storage: >1 year at room temperature (< 50°C)

Solvent: trichlorethane

Threaded thermowell



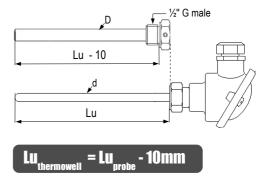
Determination of thermowell length



Thermowell with screw connection



• Determination of thermowell length



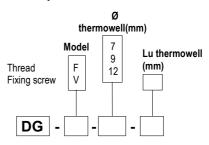
Determination of thermowell diameter

Informative table :

Probe Ø in mm	Thermowell Ø in mm
4	7
6	9
8	12
10	14
12	21,3
14	21,3

For mounting gap of 3 mm or more, the use of thermo-conducting grease is recommended (GST)

Thermowell part numbers



Connectors

Standard connector



Connector three round pins for the connexion of Pt 100 probe on cables

or on mineral insulated cable. Polarized pins.

A system of locating pin prevents the inversion of polarity.

Material: glass silk filled thermoplastic

Temperature resistance: from -50°C to +210°C For wire of diameter: 0.2 mm to 2.0 mm Connection cable: 8.0 mm maxi.

Standard color:blanc

Connector type





Miniature connector



Connector three flat pins for the connexion of Pt 100 probe on cables or on

mineral insulated cable. Polarized pins.

A system of locating pin prevents the inversion of polarity.

Material: glass silk filled thermoplastic

Temperature resistance: from -50°C to +210°C For wire of diameter: 0.002 mm to 0.6 mm

Connection cable: 4.5 mm maxi.

Standard color :white

Connector





Part numbers :

Part numbers:

Base

Standard base for panel



Connector three round pins for mounting on panel. Polarized pins. A

system of locating pin prevents the inversion of polarity.

Material: glass silk filled thermoplastic

Temperature resistance: from -50°C to +210°C For wire of diameter: 0.2 mm to 2.0 mm Connection cable: 8.0 mm maxi.

Standard color: white

Part numbers : ES - P





Miniature base for panel



Connector three flat pins for mounting on panel. Polarized pins. A system

of locating pin prevents the inversion of polarity.

Material: glass silk filled thermoplastic

Temperature resistance: from -50°C to +210°C For wire of diameter: 0.002 mm to 0.6 mm

Connection cable: 4.5 mm maxi.

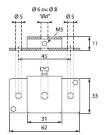
Standard color: white

Part numbers : EM - P

Fixations

Mounting brackets

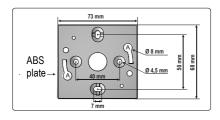




BF – **4** : Stainless steel (316L) mounting brackets for duct fixing of probes \emptyset 4 et 3mm.

BF – 6: As above, \varnothing 6 mm. **BF – 8**: As above, \varnothing 8 mm.

Wall supports



PF-100 : ABS wall-mount plate for $\pmb{SG\,50}$ and $\pmb{SG\,100}$ sensors.

Wall fixing support for probe with connection



BF-M: Stainless steel (316 L) wall fixing support. Delivered with a ½" G screw nut.

Wall fixing support for probe on cable

For **SF 50** with a probe of **100mm** minimum length



SFM - 4 : Wall fixing support made of translucent polycarbonate for probe \emptyset 4 mm and with 100 mm minimum length.

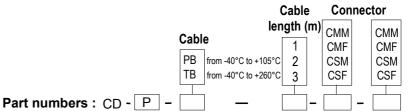
SFM - 6 : As above, Ø 6 mm. **SFM - 8 :** As above, Ø 8 mm.

Cord for resistive probe

Normal cord



Cord for probes connection. You have to determine cable selection, cable length and configuration : male / male or male / female



Coiled cord



Cord for probes connection. You have to determine cable selection, cable length and configuration : male / male or male / female

- Length at rest: 450 mm - Developed length: 2000 mm - Material : PVC

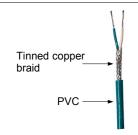
- Max. temperature: 105°C



Part numbers : CDS - P

Instrumentation cable for the link of resistive probe

PVC / Tinned copper braid / PVC



- Conductors section: 3 x 0,75 mm²

- Braid: Cu Sm 85% (tinned copper)

- Color: 2 red conductors 1 white conductor

- Max. temperature: 70°C

Cable length (m)

Part numbers :

■ Cable of resistive probe

Not shielded

Nature of the cable	Working temperature	Section of conductors	Number of conductors	Part numbers
DVC	From 40 to 105 90	0.002	3	CE-PVC-3
PVC	From -40 to +105 °C	0.22 mm ²	4	CE-PVC-4
Silicone	From CO to 1100 80	0.002		CE-SIL-3
	From -60 to +180 °C	0.22 mm ² 4	CE-SIL-4	
Teflon	From 100 to . 260 °C	0.22 mm²	3	CE-PFA-3
	From -190 to +260 °C	0.22 mm ²	4	CE-PFA-4

Shielded

Nature of the cable	Working temperature	Section of conductors	Number of conductors	Part numbers	
			3	CE-PB-3	
PVC	From -40 to +105 °C	0.22 mm ²	4 CE-PB-4 6 CE-PB-6 3 CE-SB-3	CE-PB-4	
			6	CE-PB-3 CE-PB-4 CE-PB-6	
			3	CE-SB-3	
Silicone	From -60 to +180 °C	0.22 mm ²	4	CE-SB-4	
			6	CE-SB-6	
			3	CE-TB-3	
Teflon	From -190 to +260 °C	0.22 mm ²	4	CE-SB-4 CE-SB-6 CE-TB-3 CE-TB-4 CE-TB-6	
			6	CE-TB-6	
			3	CE-SvB-3	
Glass silk	From -60 to +400 °C	0.22 mm ²	4	CE-SvB-4	
			6	CE-SvB-6	

Convertors

CO-P transmitter



Sensor: Pt100 (100Ω at 0 °C) Mounting of the element: 2 or 3 wires Linearization: EN60751, IEC 751

Current in the sensor : <1 mA

Measuring range: from -200 to +850 °C

Default range: from 0 to 100 °C

Minimum measuring range: 25 °C

Influence of connection wires: negligible with coupled wires

Speed conversion: 2 measurements per second

Accuracy: from -100 to +500 °C: ±0.1 °C ±0.1% of reading

beyond: ±0.2 °C ±0.2% of reading

Sensitivity to variations of feeding voltage: 0.01 °C/°C Sensitivity to variations of voltage supply: 0.005% FC / Vdc

Storage temperature: from -40 to +80 °C Working temperature: from 0 to +70 °C

Output: 4-20 mA (or 20-4 mA), 22 mA in case

of programming error or temperature out of range* (fig1)

Resolution: 2 µA

Power supply voltage: 7-30 Vdc (protection

against inversions of polarity)

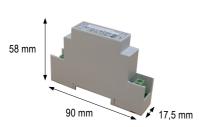
Load resistance : $R_{Lmax} = \frac{Vdc - 7}{0.022}$

 $=>R_{Lmax}=770 \Omega @ Vcc = 24 Vdc$

Temperature range to be specified

Temperature range to be specified

CRD-P transmitter (Passive / 2 wires)



Mounting: rail DIN symetric or asymmetrical

Input: PT100 3 wires
Output: 4-20 mA 2 wires

Accuracy: ±0.1°C ±0.1% of reading (-100 to +500°C)

±0.2°C ±0.2% of reading (-200 to +650°C)

Linearisation : En 60751, IEC 751, BS 1904 (α =0,00385) **Operating voltage :** 7 to 30 VDC polarity protected **Power supply influence :** \pm 0.02 % /V in relation to 24 V

Resistance influence: 0.4 µA/V
Working temperature: from 0 to +70°C
Storage temperature: from -40 to +70°C
Temperature dependence: ±0.01°C/°C
Measuring range: from -200 to 650°C
Measuring range minimum: 25°C

Safety: max. 22 mA

Charge calculation according to power supply : $RLmax(\Omega) = (V - 9)/0.022 = 680 \Omega$ at 25 Vdc

Dimensions (mm): depth 90, width 17,5, height 58

CRD-A transmitter (Active / 4 wires)



Mounting: rail DIN symetric or asymmetrical

Input: PT100 2, 3, 4 wires
Output: 4-20 mA or 0-10 V
Accuracy: ±0,2 %

Input resistance : $10 \text{ M}\Omega$ Charge (min.) : $500 \text{ k}\Omega$

Operating voltage: 230 Vac, 24 Vac, 24 Vdc and 110 Vac

Working temperature: from -20 to +60°C Storage temperature: from -20 to +60°C

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- Temperature range

To be specified:

- Power supply
- Output 4-20 mA 0-10 V

Indicator / Programming front (IF-CRD)



- Communication interface for parameters modification
- Can be transferred from one transmitter to another one
- · Display for data process and state

Alternating current



KI - AL - 100 A: Class 2 power supply for SG100 sensors. Mounting with integrated brackets. Input voltage: 230 Vac, output voltage 24Vac, intensity 100mA.

Direct current



KI - AL - 100 C : Class 2 power supply for **SG100** sensors, Input voltage: 230 Vac, Output voltage: 24Vdc, intensity 250mA.

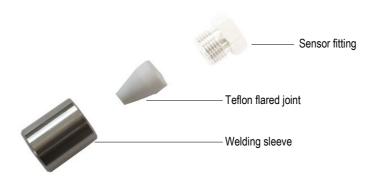
Ref. FTang – Accessories-RTD - 22-03-10 – RCS (24) Périgueux 349 282 095 Non-contractual document – We reserve the right to modify the characteristics of our products without prior notice.

Configuration software (for SG 100)



LCC - 100 : Configuration software for SG 100 sensors with user manual and RS 232 connection cable.

Soldering union



MES-6-12: Stainless steel soldering union is for applications of type « hygienic » such as food stuffs industry, pharmaceutical...

It is made of a welding sleeve and a Teflon flared seal.