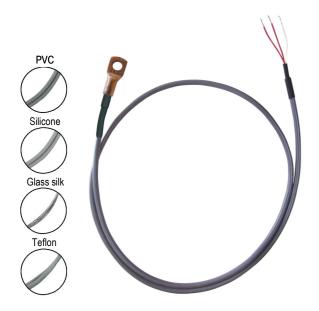


Technical Data Sheet

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



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 Ρ **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 : SF051-B-2-P-1-2Model : 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

SF0 50 / SF0D 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

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

entact tip......Copper eyelet 14 x 12 mm, hole fixing of Ø 6.3 mm.

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

or 5 mm (SFOD).

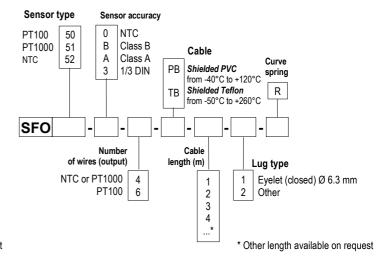
Waterproof crimping with heat-shrink tubing.

(unless glass silk cable with simple crimping on stainless steel

sheath)

Optional: curve spring

SFOD 50 - Multipair Probe -

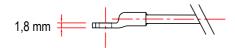


Example: SFOD51-B-4-P-1-2

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

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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