

Technical Data Sheet

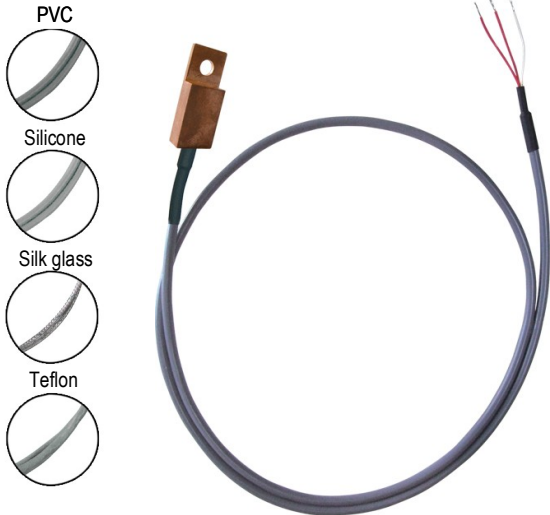
Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level



Surface contact wire temperature probe

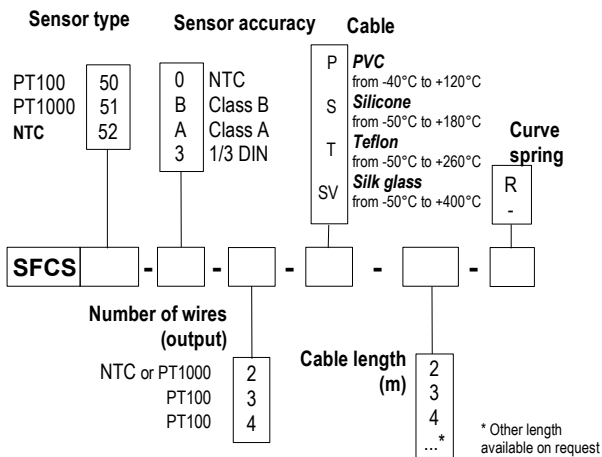
SFCS 50 / SFCS 50

- 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

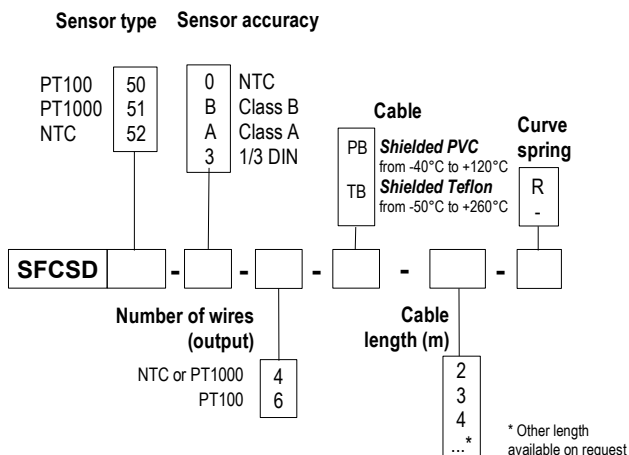
• SFCS – Single pair probe -



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.

• SFCS 50 – Multipair probe -



Example : SFCS50-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 SFCS 50 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, $R_{25} = 10K\Omega$
Nominal Beta value B25/85 = 3,695K ±1%

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

multipair 4 or 6 wires

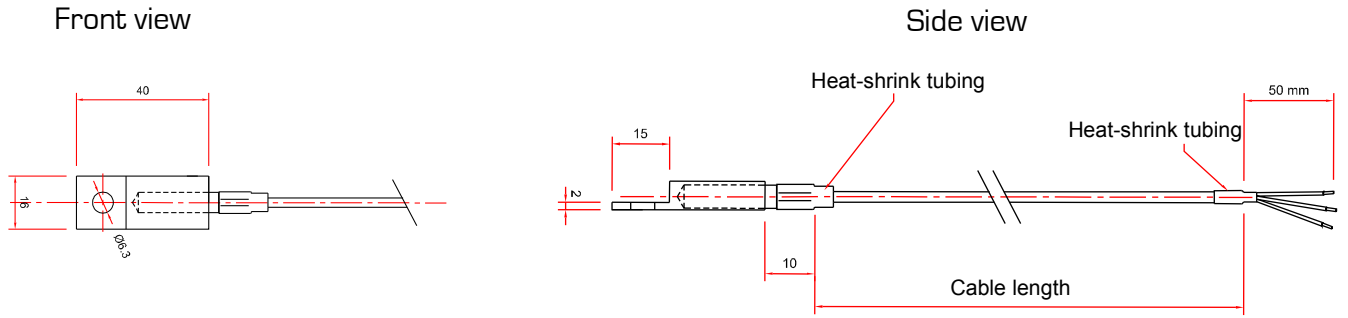
Storage temperature.....from -20°C to +80°C



Contact tip.....40 x 16 x 7,5mm
Ø 6,3 mm hole
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

■ Dimensions



■ Tolerances* of Pt100 and Pt1000 probes

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

| Temp °C | Tolerances | | | | | |
|---------|------------|--------|---------|--------|---------|--------|
| | Class B | | Class A | | 1/3 DIN | |
| | ± °C | ± Ohms | ± °C | ± Ohms | ± °C | ± Ohms |
| -100 | 0,8 | 0,32 | 0,35 | 0,14 | 0,27 | 0,11 |
| -50 | 0,55 | 0,22 | 0,25 | 0,1 | 0,19 | 0,08 |
| 0 | 0,3 | 0,12 | 0,15 | 0,06 | 0,1 | 0,04 |
| 100 | 0,8 | 0,3 | 0,35 | 0,13 | 0,27 | 0,1 |
| 200 | 1,3 | 0,48 | 0,55 | 0,2 | 0,44 | 0,16 |
| 300 | 1,8 | 0,64 | 0,75 | 0,27 | 0,6 | 0,21 |
| 400 | 2,3 | 0,79 | 0,95 | 0,33 | 0,77 | 0,26 |

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 ± 0,3°C → ± 1,2 Ω

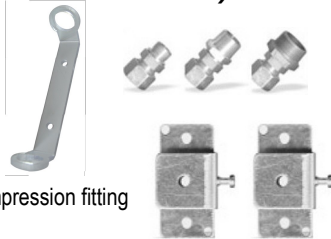
■ Tolerances* of NTC probes

| 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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