

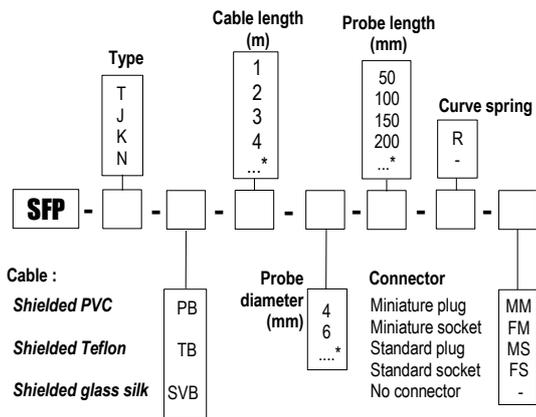
## Thermocouple penetration probe with cable

### SFP K

#### Probe features

- Thermocouple types T, J, K and N.
- Measuring range from **-40°C to +550°C**
- 316 L stainless steel sheath

#### Part numbers



\* Other on request

#### Example : SFPK-PB-1-4-100-R-MM

Model : Thermocouple type K. Stainless steel protective sheath 4 mm diameter, 100mm length with a shielded PVC cable, 1m long, with curve spring and miniature plug connector.

Measuring range from -40 to +105°C.

#### Technical features

**Operating temperature**.....from -40°C to +105°C for shielded PVC cable  
 from -40°C to +260°C for shielded T cable  
 from -40°C to +400°C for shielded SV cable  
 from -40°C to +550°C for shielded SV cable (Tc K only)

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

**Welding type**.....Ungrounded hot junction.

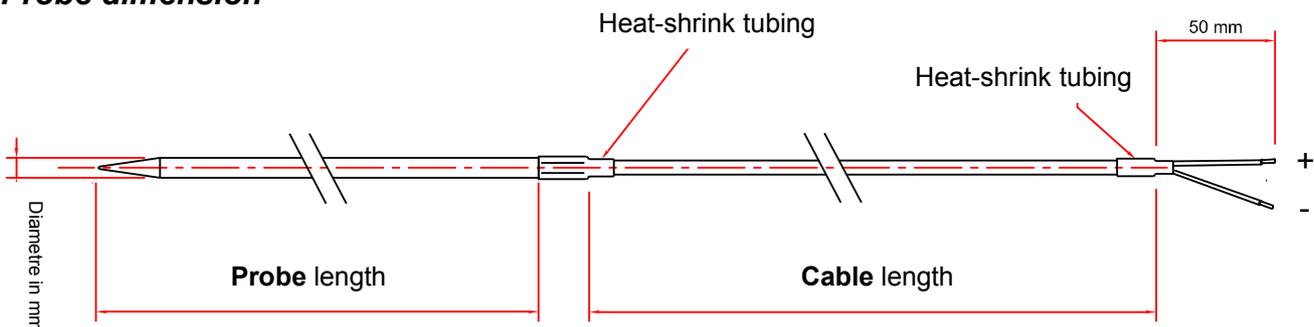
**Storage temperature**.....from -20°C to +80°C

**Output** .....stripped wire, miniature plug or standard on request.

**Sheath**.....316 L stainless steel, optional curve 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 dimension



## Tolerances\* of the probe

As per IEC 584-3 norm

TC	Measuring range CLASS 1	TOLERANCE
T	From -40°C to +350°C	From -40°C to +125°C $\pm 0.5^\circ\text{C}$ From 125°C to +350°C $\pm 0.004 \times T^\circ$
J	From -40°C to +750°C	From -40°C to +375°C $\pm 1.5^\circ\text{C}$ From 375°C to 750°C $\pm 0.004 \times T^\circ$
K	From -40°C to +1000°C	From -40°C to +375°C $\pm 1.5^\circ\text{C}$ From 375°C to 1000°C $\pm 0.004 \times T^\circ$
N	From -40°C to +1000°C	From -40°C to +375°C $\pm 1.5^\circ\text{C}$ From 375°C to 1000°C $\pm 0.004 \times T^\circ$

\* Performed in laboratory conditions, the above accuracies mentioned in this document will be guaranteed, provided that you use the calibration compensation data or identical calibration conditions.

## Most common thermocouple types

THERMOCOUPLE TYPES	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Chromel	Alumel	Ext. color + = GREEN, - = WHITE
T	Copper	Constantan	Ext. color + = BROWN, - = WHITE
J	Iron	Constantan	Ext. color + = BLACK, - = WHITE
N	Nicrosil	Nisil	Ext. color + = PINK, - = WHITE
R	Platinum-13% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-10% Rhodium	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-30%Rhodium	Platinum- 6%Rhodium	Ext. color + = GREY, - = WHITE

## Accessories (See Datasheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector



- Miniature or standard fixed connector
- Miniature or standard connectors panel
- Extension lead
- Converters



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