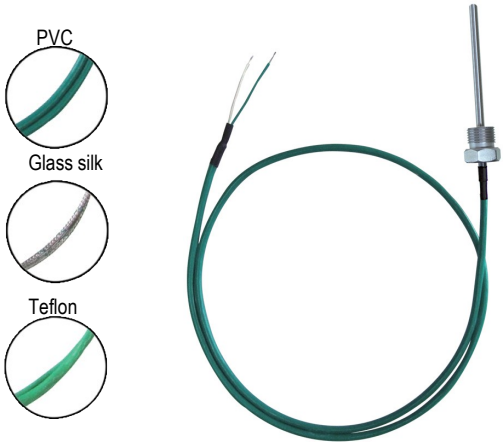
KIMO INSTRUMENTS

Technical Data Sheet

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



Cable thermocouple temperature sensor with fitting of fixation

SFR K / SFR KI

- Thermocouple types T, J, K and N
- Measuring range **from -40°C to +1000°C**
- Mounting with 316 L stainless steel contact tip or inconel 600

Stainless steel contact tip 550 °C max part numbers

	Type	Cable	Cable length (m)	Diameter (mm)	Contact tip length (mm)	Fitting	Connector	
SFR –	T J K N	PB TB SVB	1 2 3 4 *	4 6 8 *	50 100 150 200 *	12 ½' G male 14 ¼' G male ... Other	MM Male miniature FM Female miniature MS Male standard FS Female standard - Without connector	
								- SCM Insulated To earth
						- R Curve spring		

*other dimension on request

Example : SFRJ-SVB-4-4-150-12-R-MM-SCM

Model : J type thermocouple temperature probe welded to earth with contact tip of 150 mm and 4 mm Ø mounted on shielded glass silk cable of 4 m with a male miniature connector on the end . ½' G male compression fitting and curve spring.

Lined contact tip 1000°C max. part numbers

	Type	Cable	Cable length (m)	Diameter (mm)	Contact tip length (mm)	Fitting	Connector	
SFR –	TI JI KI NI	TB SVB	1 2 3 4 *	4,5 6 8 *	50 100 150 200 *	12 ½' G male 14 ¼' G male ... Other	MM Male miniature FM Female miniature MS Male standard FS Female standard - Without connector	
								- SCM Insulated To earth
						- R Curve spring		

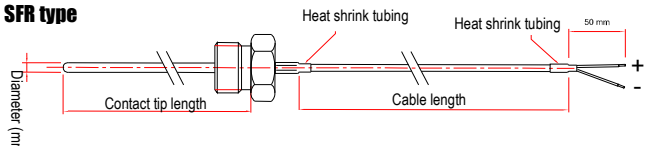
*other dimension on request

Example : SFRJI-SVB-4-45-150-12-R-MM-SCM

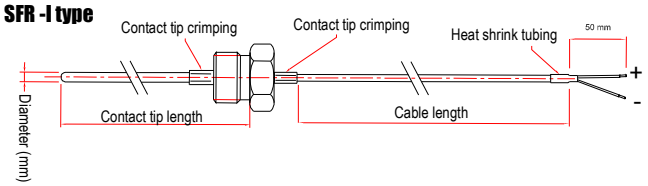
Model : J type thermocouple temperature probe in inconel welded to earth with contact tip of 150 mm, 4.5 mm Ø mounted on shielded glass silk cable of 4 m with a male miniature connector on the end . ½' G male compression fitting and curve spring.

Dimensions

SFR type



SFR -I type



Technical features

Working temperature.....*For SFR series*
from -40°C to +105°C for PVC output
from -40°C to +260°C for TB output
from -40°C to +400°C for SVB output
from -40°C to +550°C for SVB (Tc K) output

For SFR-I series, lined mountings
from -40°C to +350°C for Tc T
from -40°C to +750°C for Tc J
from -40°C to +1000°C for Tc K
from -40°C to +1000°C for Tc N

Recommended temperature....*According to inconel 600 contact tip Ø*
from 0.5 to 1 mm Ø : until 300°C
from Ø1.5 to 2 mm Ø: until 750°C
3 mm Ø : until 900°C
from 4.5 to 8 mm Ø : until 1000°C

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

Mounting of welding.....Insulated hot welding in standard
Add SCM to part number for a mounting with hot welding to earth.

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

Output.....stripped wires, male miniature connector or standard on request.

Compression fitting.....316 L stainless steel

Thread.....½ or ¼ au pas gaz

Contact tip.....316 L stainless steel or inconel 600
Curve spring as option

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 ± 0.5°C From 125°C to +350°C ± 0.004 x T°abs
J	From -40°C to +750°C	From -40°C to +375°C ± 1.5°C From 375°C to 750°C ± 0.004 x T° abs
K	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°abs
N	From -40°C to +1000°C	From -40°C to +375°C ± 1.5°C From 375°C to 1000°C ± 0.004 x T°abs

* 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 TYPE	+ CONDUCTOR	- CONDUCTOR	COLOR OF COMPENSATING CABLE
K	Nickel-Chrome 10%	Nickel-Aluminium 5% -Silicium	Ext. color + = GREEN, - = WHITE
T	Copper	Copper-Nickel	Ext. color + = BROWN, - = WHITE
J	Iron	Copper-Nickel	Ext. color + = BLACK, - = WHITE
N	Nickel 84,4% Chromium 14,2% Silicium 1,4%	Nickel 95,6% Silicium 4,4%	Ext. color + = PINK, - = WHITE
R	Platinum-Rhodium 13%	Platinum	Ext. color + = ORANGE, - = WHITE
S	Platinum-Rhodium 10%	Platinum	Ext. color + = ORANGE, - = WHITE
B	Platinum-Rhodium 30%	Platinum-Rhodium 6%	Ext. color + = GREY, - = WHITE

Accessories (See data sheet)

- Extension cable
- Compensating cable
- Standard or miniature connector
- Cable seal for plug and socket connector
- Miniature or standard connectors panel
- Miniature or standard connectors panel
- Extension lead
- Converters

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