



SCT122-Exi

- temperature range -40 ÷ 1100°C
- operating temperature of connection heads max. 150°C
- stainless steel stepped sheath
- optional: sensor with a replaceable measuring insert
- possibility of mounting a 4.. 20 mA temperature transmitter

The thermocouple SCT122-Exi is intended for measuring the temperature of pipelines, tanks, machines and devices in various industrial installations. The sensor consists of an aluminum connection head and a stepped sheath of a selected diameter, which results in increased measurement dynamics. Replacement of the measuring insert does not cause the technological installation damage.

Application areas:

- -industrial and technological installations in various industries,
- temperature measurement of pipelines, tanks, boilers,
- measurement of all media (gases, liquids, solids).

TECHNICAL DATA

Sensing element	J, K, N, R, S, B, E, T thermocouple (single, double)			
Measuring range	depending on thermocouple and material: -40 \div 450°C (with non-replaceable insert), -40 \div 1100°C (with replaceable insert)			
Connection head	B, NA or other, operating temperature -40 ÷ 150°C			
Class	1 or 2			
Sheath	material: stainless steel 1.4571 nominal length: 100 mm (or other, specified when ordering) diameter d1: 3, 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 15 mm (with non-replaceable insert); 8, 9, 10, 11, 12, 15 mm (with replaceable insert)			
ATEX approval	II 1G Ex ia IIC T6-T1 Ga; II 1D Ex ia IIIC T85°C÷450°C Da			

THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

Thermocouple	Class 1		Class 2	
	Temperature range	Tolerance	Temperature range	Tolerance
J (Fe-CuNi) K (NiCr-Ni) N (NiCrSi-NiSi)	-40 ÷ 750°C -40 ÷ 1000°C -40 ÷ 1000°C	± 1,5°C ± 0,0040°C x t	-40 ÷ 750°C -40 ÷ 1200°C -40 ÷ 1200°C	± 2,5°C ± 0,0075°C x t
B (PtRh30-PtRh6)	-	-	600 ÷ 1700°C	± 0.0025°C x t
R (PtRh13-Pt) S (PtRh10-Pt)	0 ÷ 1100°C 1100 ÷ 1600°C	± 1.0°C ± [1+0.003(t-1100)]°C	0 ÷ 600°C 600 ÷ 1600°C	± 1.5°C ± 0.0025°C x t

CONNECTION HEAD TYPES



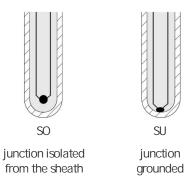




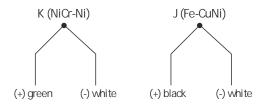




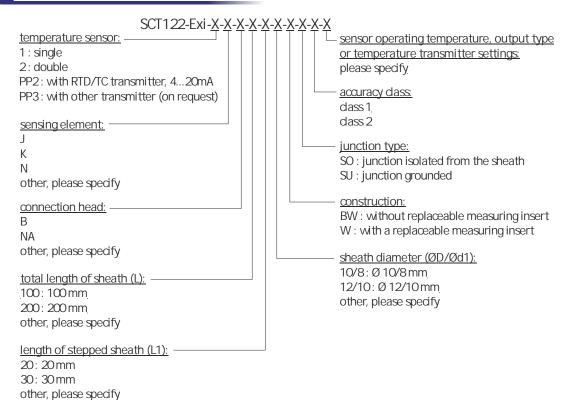
TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCT122-Exi-1-N-NA-100-20-10/8-BW-SO-2-400

Single TC intrinsically safe temperature sensor, K thermocouple, 2 tolerance dass, without replaceable measuring insert, hot junction isolated from the sheath, NA head type, pressure sheath diameter 8 mm, length 100 mm, stepped part with a length of 20 mm and a diameter of 6 mm, max. operating temperature 400°C.



