



SCT121

- temperature range -40 ÷ 1200°C depending on thermocouple
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- drilled pressure sheath
- sensor with a replaceable measuring insert
- possibility of mounting a 4.. 20 mA or 0...10 V temperature transmitter
- connection head DANW with local display

The thermocouple SCT121 consists of an exchangeable measuring insert, outer protective tube (thermowell), drilled pressure sheath, and aluminum connection head. Intended for measuring the temperature of pipelines, tanks, boilers in difficult conditions. Mounting a temperature transmitter with 4...20mA or 0...10V output signal is possible. The measuring insert represents the replaceable element of the complete sensor, which reduces the time and costs of maintenance of the measuring apparatus installed in the object. Spring fixation of the measuring insert provides perfect pressure to the bottom of the protecting tube, reduces the time of reaction of temperature changes, and increases the accuracy. It also reduces natural vibration. Thus, mechanical and electrical defects can be avoided.

Application areas:

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

TECHNICAL DATA

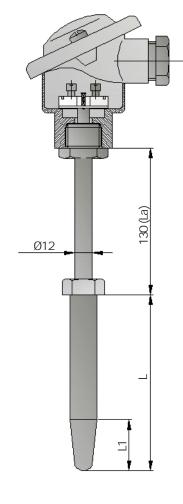
Sensing element	J, K, N, R, S, B thermocouple or other (single, double)			
Measuring range	-40 ÷ 1200°C (depending on thermocouple and material)			
Connection head	B, NA or other, operating temperature -40 ÷ 150°C			
Class	1 or 2			
Sheath	material: heat-resistant steel H25N2OS2 (1.4841 / AISI314) or other any nominal length (specified when ordering) diameter: from 15 to 26 mm			

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 (PtRh3O-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

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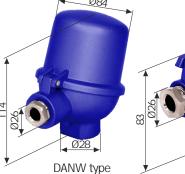
NA type





CONNECTION HEAD TYPES

B type

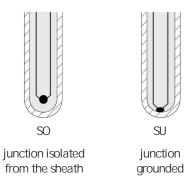




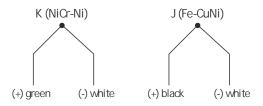
DAN type

J simex

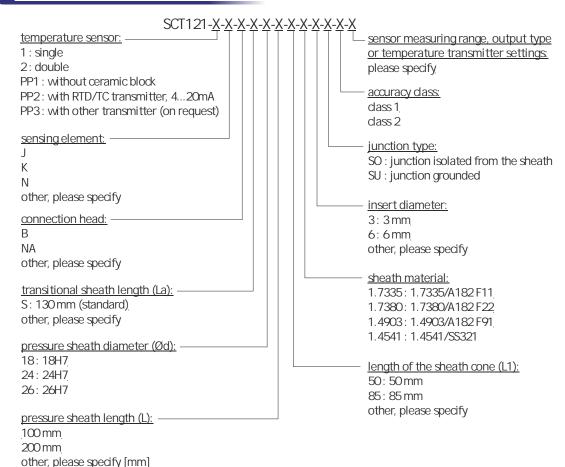
TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCT121-1-K-B-S-18-140-30-1.4541-6-SO-2-(-10-900)

Single TC temperature sensor, K thermocouple, 2 tolerance class, with replaceable measuring insert diameter 6 mm, B head type, pressure sheath diameter 18 mm, length 140 mm, sheath from stainless steel 1.4541, sheath cone 30 mm, hot junction isolated from the sheath, sensor measuring range -10 to 900°C.

