



SCT103

- temperature range -40 ÷ 1200°C depending on thermocouple
- operating temperature of connection heads max. 150°C
- stainless steel sheath
- threaded process connection
- optional: 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 SCT103 consists of an exchangeable measuring insert, outer protective tube (thermowell) with neck and aluminum connection head. Mounting a temperature transmitter with 4...20 mA or 0...10V the output signal ispossible. 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 to changes of temperature and increases the accuracy of measurement as well as reduces natural vibration thus mechanical, and electrical defects can be avoided. Application areas:

- -fine chemical industry,
- -light energy industry,
- -general industrial services.

TECHNICAL DATA

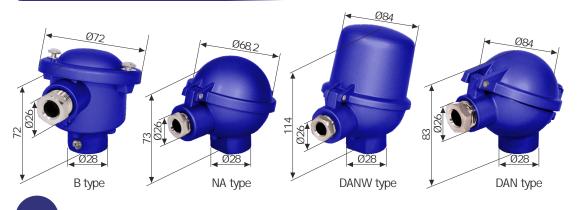
Sensing element	J, K, N, R, S, B thermocouple or other (single, double)		
Measuring range	-40 ÷ 1200°C (depending on thermocouple and material)		
Connection head	B, NA or other, operating temperature -40 ÷ 150°C		
Class	1 or 2		
Sheath	material: stainless steel 1.4541 or other proper sheath length (L): 100 mm, 160 mm or other transitional sheath length (La): 130 mm (standard) diameter: 4 ÷ 15 mm		
Process connection	G1/2", M20x1,5 or other		

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

(e) 0CL

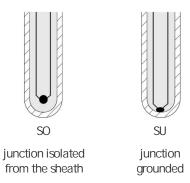
CONNECTION HEAD TYPES



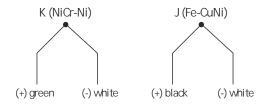


Simex

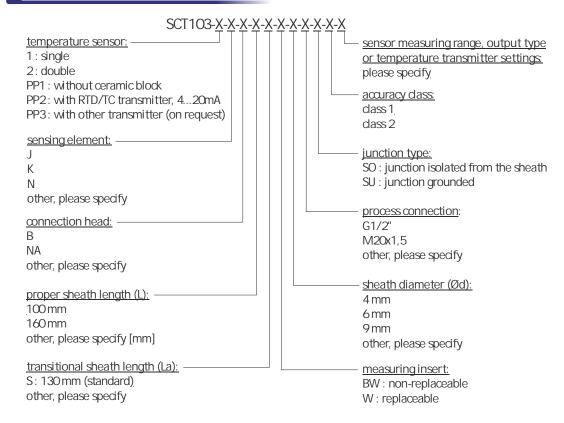
TYPES OF MEASURING HOT JUNCTION



ELECTRICAL CONNECTION



ORDERING



Ordering example:

SCT103-1-K-B-100-S-W-9-G1/2"-SO-2-250

Single TC temperature sensor, K thermocouple, 2 tolerance class, measuring insert replaceable, B head type, process connection G1/2", sheath diameter 9 mm and length 100 mm, hot junction isolated from the sheath, sensor measuring range 250°C.

