

SCT212



- temperature range $-40 \div 400^{\circ}\text{C}$ (depending on the cable used)
- stainless steel sheath
- minimum sheath diameter: 3 mm
- any length of the sheath
- stainless steel smooth handle
- spring protection against excessive cable bending
- sensor connection standard or mini plug

The thermocouples SCT212 are industrial standard sensors with high accuracy and stability. They are intended for industrial and laboratory applications. Thanks to their design of tight thermowell with a stainless steel handle, they can be used in a dry environment as well as in wet baths. Lead wire can be with the insulated bare ends ready for being assembled to a connector or directly to a measuring device.

Application areas

- food industry, warehouses,
- general industrial services.

TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)
Measuring range	$-40 \div 400^{\circ}\text{C}$ (depending on the cable used)
Process connection	standard or mini plug
Class	1 or 2
Sheath	material: stainless steel 1.4541 or other nominal length: 100 mm (standard) diameter: 3,5 or 4 mm
Cable	type with table, standard length 1500 mm or other according to order

CONNECTION CABLES

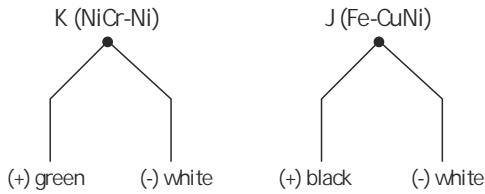
Diagram	Insulation design	Temperature range	Code
	Double fiberglass - stainless steel	$-40 \div 400^{\circ}\text{C}$	WS
	PVC	$-10^{\circ}\text{C} \div 105^{\circ}\text{C}$	PVC
	Teflon - stainless steel - teflon	260°C max.	TOT
	Teflon - stainless steel	260°C max.	TO
	Silicon - stainless steel - silicon	180°C max.	SOS
	Silicon - silicon	$-30^{\circ}\text{C} \div 250^{\circ}\text{C}$	SS
	Teflon - teflon	$-40^{\circ}\text{C} \div 260^{\circ}\text{C}$	TT



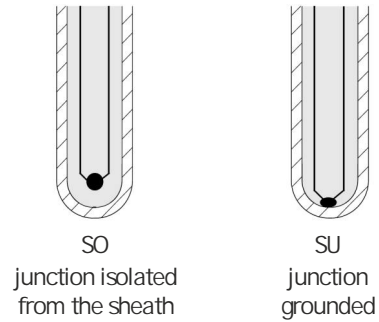
THERMOCOUPLES TOLERANCE ACC. TO PN-EN 60584

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

ELECTRICAL CONNECTION



TYPES OF MEASURING HOT JUNCTION



OPTIONAL EQUIPMENT



ORDERING

SCT212-X-X-X-X-X-X-X-X-X-X

- temperature sensor:
 - 1: single
 - 2: double
- sensing element:
 - J
 - K
 - N
 - other, please specify
- sheath diameter (Ød):
 - 3,5 mm
 - 4 mm
 - other, please specify
- sheath length (L):
 - 100 mm (standard)
 - other, please specify [mm]
- cable design:
 - P: straight
 - S: twisted (PVC-105°C)
- sensor measuring range or temperature transmitter settings: please specify.
- process connection:
 - WS: standard plug
 - WM: mini plug
 - : no process connection
- accuracy class:
 - class 1
 - class 2
- junction type:
 - SO: junction isolated from the sheath
 - SU: junction grounded
- connecting cable length (AL):
 - 1500: 1,5 linear meter
 - other, please specify [mm]
- insulation types of connection cable:
 - PVC: PVC / PVC (105°C max.)
 - TT: teflon / teflon (260°C max.)
 - SS: silicon / silicon (250°C max.)
 - WS: double fibreglass / stainless steel (400°C max.)

Ordering example:
 SCT212-1-K-4-100-P-WS-1500-SO-2-WM-150
 Single TC temperature sensor, K thermocouple, 2 tolerance class, sheath diameter 4 mm and length 100 mm, straight connection cable, length 1500 mm with double fibreglass insulation and „mini” plug, hot junction isolated from the sheath, sensor measuring range 150°C.

