

# SCT201



- temperature range  $-40 \div 400^{\circ}\text{C}$  (depending on the cable used)
- stainless steel sheath
- minimum sheath length: 15 mm, minimum sheath diameter: 2 mm
- any maximum sheath length
- thermowell spring protection against excessive cable bending

The thermocouples **SCT201** are designed for fitting directly into a drilled hole or process. Consist of a thermocouple element, a protection tube made out of stainless steel, and a connection cable. Sensor insertion length, thermowell diameter, process connection thread, number of sensors, accuracy, cable length, and insulation can be selected individually for the respective application.

**Application areas:**

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

## CONNECTION CABLES

Diagram	Insulation design	Temperature range	Code
	- double fiberglass - stainless steel - cond: nickel plated copper	$-40 \div 400^{\circ}\text{C}$	WS
	- PVC - cond: nickel plated copper	$-10^{\circ}\text{C} \div 105^{\circ}\text{C}$	PVC
	- teflon - stainless steel - teflon - cond: nickel plated copper	$260^{\circ}\text{C max.}$	TOT
	- teflon - stainless steel - cond: nickel plated copper	$260^{\circ}\text{C max.}$	TO
	- silicon - stainless steel - silicon - cond: nickel plated copper	$180^{\circ}\text{C max.}$	SOS
	- silicon - silicon - cond: nickel plated copper	$-40^{\circ}\text{C} \div 250^{\circ}\text{C}$	SS
	- teflon - teflon - cond: nickel plated copper	$-40^{\circ}\text{C} \div 205^{\circ}\text{C}$	TT

## ORDERING

SCT201-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):**
  - 4 mm
  - 5 mm
  - other, please specify
- sheath length (L):**
  - 50 mm (standard)
  - 100 mm
  - other, please specify [mm]
- process connection:**
  - G1/2"
  - M10x1
  - M14x1,5
  - other, please specify
- accuracy class:**
  - class 1
  - class 2
- junction type:**
  - SO : junction isolated from the sheath
  - SU : junction grounded
- connecting cable length:**
  - 1500 : 1,5 linear meter
  - other, please specify [mm]
- insulation types of connection cable:**
  - PVC : PVC / PVC ( $110^{\circ}\text{C max.}$ )
  - TS : teflon / silicon ( $180^{\circ}\text{C max.}$ )
  - SS : silicon / silicon ( $250^{\circ}\text{C max.}$ )
  - WS : double fibreglass / stainless steel ( $400^{\circ}\text{C max.}$ )

Ordering example:

**SCT201-1-K-6-100-M14x1,5-TS-1500-SO-2**

Single TC temperature sensor, K thermocouple, 2 tolerance class, thermowell diameter 6 mm and length 100 mm, teflon/silicon insulation, process connection M14x1,5 mm, cable length 1500 mm, hot junction isolated from the sheath

