



different types of sensor connections

accurate measurement and short reaction time to temperature changes

small dimensions enable working in hard-to-reach places

resistance to vibrations and the possibility of bending

thermowell made of nickel alloy (Inconel 600)

mineral insulated thermoelectric sensor

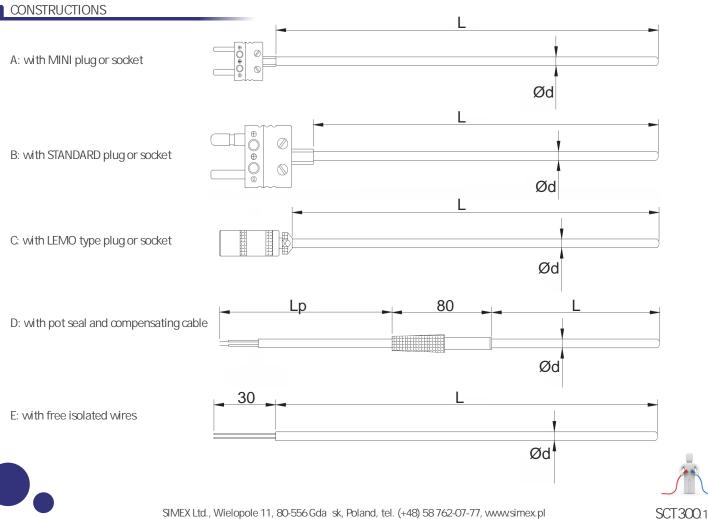
The mineral insulated thermocouple SCT300 contains the flexible part of the probe. The probe consists of a stainless steel outer sheath, in which the inner conductors are insulated with compressed into a highly compacted ceramic mass. The outer sheath is made of stainless steel or Ni alloy. The inner conductors are welded together at the measuring end of the sheathed cable to form the 'thermocouple' junction. In designs, where the measuring element is not insulated, the sheath is also welded with the thermocouple junction. Connector cables are connected to the other end of the sheathed cable and hermetically sealed with a sealing compound. The connector wires are the basis of the electrical interface with cable, a connector, or a terminal block. Due to their flexibility and the small diameters in which they are available, sheathed thermocouples can be used in locations that are not easily accessible.

Application areas:

- -general machinery and equipment design,
- -measuring temperature of liquids, gases and solid bodies, measurement laboratories.

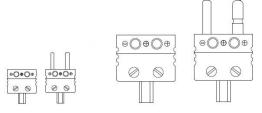
TECHNICAL DATA

Sensing element	J, K, N, R, S, B thermocouple or other (single, double)	
Measuring range	-40 ÷ 1200°C	
Process connection	standard / mini / Lemo plug or socket	
Class	1 or 2	
Sheath	naterial: 2.4816 alloy (Inconel 600) or other ny nominal length according to order iameter: 3 mm, 4,5 mm, 6 mm	
Cable	double isolation: teflon, silicon or fibreglass, standard length 1500 mm or other according to order	
Junction	isolated from the sheath, grounded or exposed	

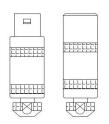


J simex

CONNECTION





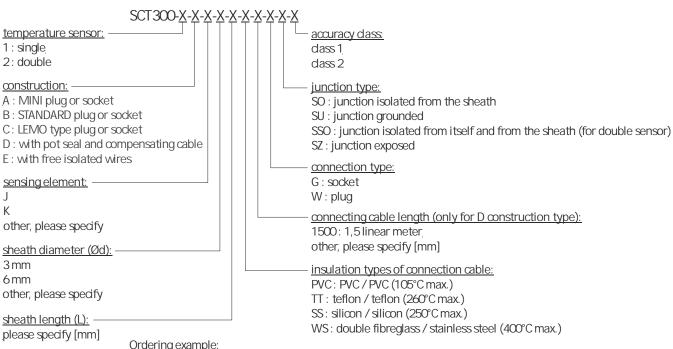


LEMO type plug or socket

CONNECTION CABLES

Diagram	Insulation design	Temperature range	Code
	Double fibreglass - stainless steel	-40 ÷ 400°C	WS
	PVC	-10°C ÷ 105°C	PVC
	Teflon - stainless steel - teflon	260°C max.	ТОТ
	Teflon - stainless steel	260°C max.	ТО
	Silicon - stainless steel - silicon	180°C max.	SOS
	Silicon - silicon	-30°C ÷ 250°C	SS
	Teflon - teflon	-40°C ÷ 260°C	Π

ORDERING



Ordering example:

SCT300-1-D-K-3-500-TT-1500-W-SO-2

Single TC temperature sensor, K thermocouple, 2 tolerance class, thermowell diameter 3 mm, length 500 mm, teflon insulation, sensor with pot seal and compensating cable with length 1500 mm, hot junction isolated from the sheath.

