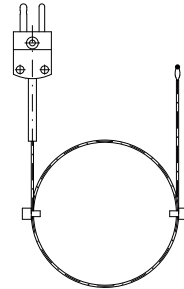


Application

- For measuring temperature where a portable, flexible and fast responding sensor is needed.
- Used in solid and gassous medias up to 400°C
- Fields of application
 - With handheld digital thermometers
 - Heating and ventilation (HVAC)
 - Laboratories and tests

Technical features

- Thermocouple type T and K according to IEC 584-1
- TT consist of an insulated thermocouple wire, welded together in one end to an exposed hot- junction
- Small wire diameter and welding means fast response time



Ordering

The requested sensor is selected from the table below
The colour code means:

- Standard: Built of standard modules (short delivery time)
- Variant: Modified standard modules
- Special: Special versions and material. We are specialist in temperature measurement. Please contact us and we will do our best to solve your specific measuring task

Ordering information

Specification number	2304-	Sensor
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Termopar

NiCr-Ni type K	0
Cu-CuNi type T	1
Special:	s

Insulation, TC wire

Temp. range

Fiberglass, silicone varnished	-20 + 400°C	0
PVC	-10 + 105°C	1
Silicone	-45 + 180°C	2
Teflon	-60 + 250°C	3
Special:		s

Wire diameter

2 x 0.2mm (Only for insulation 0)	0
2 x 0.5mm	1
Special:	s

Plug

0	With mini compensation plug
1	Without mini compensation plug

Tolerance acc to IEC 584-2

0	Class 2, for K, i.e. ±2.5°C or 0.0075 x t _{actual} (°C)	1)
1	Class 2, for T, i.e. ±1.0°C or 0.0075 x t _{actual} (°C)	1)
s	Special:	

Note 1: The highest value apply

Nominal length (mm)

0 1 5 0 0	1500
0 3 0 0 0	3000
0 5 0 0 0	5000
1 0 0 0 0	10000
x x x x x	Interim lengths (Min. 50, max. 99,999mm)

Accessories

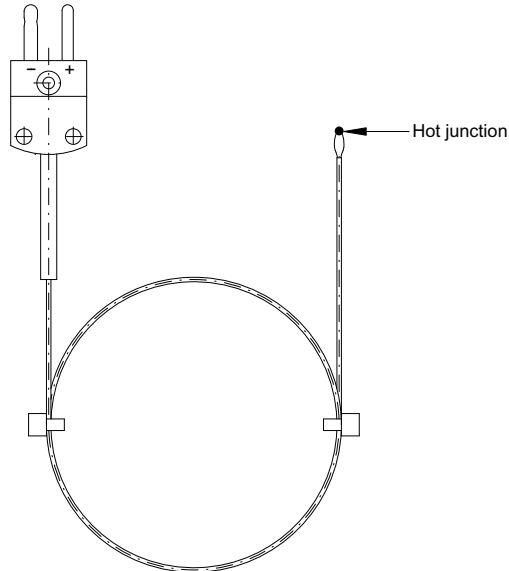
TC wire: See data sheet 9152

Customer information

Name:

Tel.:

Dimensions



Properties for insulation of TC wire

Conductor diam.	Overall dimensions	Insulation	Temperature range	Application
0.2	1.0 x 0.8	Fiberglass, silicone varnished	- 20 + 400°C	High temperature, not water tight
0.5	1.8 x 1.1	Fiberglass, silicone varnished	- 20 + 400°C	High temperature, not water tight
0.5	2.2 x 3.4	PVC	- 5 + 105°C	General use, low temperature
0.5	4 diam.	Silicone	- 45+ 180°C	Flexible, heat resistance
0.5	2.1 x 3.1	Teflon	- 60 + 250°C	Corrosion and heat resistance

Response time

Conductor diam.	Response time in seconds (guidelines)	
	In air @ 2m/sec.	
	t _{0.5}	t _{0.9}
0.2	0.7	2.5
0.5	1.8	6

Note:

The 0.5/0.9 time is the time that it takes the sensor to reach 50%/90% of the final value of a temperature change of a medium.
If media and velocity are different from the ones stated, the time can change significantly.

Connection diagram

