Main Specifications	Other Specifications
▼Type Weather resistance ▼Thread Material: SS 304 Size: 1/2" Type: BSPT, NPT, PF ▼Electrical connection 1/2" NPT, M20 x 1.5 ▼Stem Material: SS 304 Outer diameter: 1/4" (6.35mm) Length: 50...2000 mm ▼Temperature range Min.: 0°C Max.: 1800°C ▼Applicable fluid Liquid and gas that compatible with SS 304 ▼Working environment Insert depth: At least > 8*thermowell outer diameter ▼Ambient temperature 15°C to 35°C ▼Ambient humidity 45 to 75% R.H. ▼Atmospheric pressure 860...1060 mbar ▼Protection level IP 65	▼Ring Aluminum alloy with enamel ▼Back housing Aluminum alloy with enamel ▼Measuring elements Thermocouple For detail information, please refer to temperature range table ▼Temperature accuracy Class I/II

Thermocouple
(Weather Resistance Type)
Model: TC

Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales.
(If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- Customized stem length
- Suitable for measuring medium/high temperature

Temperature Range Table

Thermocouple material	Class	Suitable temp.	Maximum temp. range
70%Pt/30%Rh	B	1500°C	100 to 1800°C
90%Pt/10%Rh–Pt	S	1400°C	0 to 1700°C
87%Pt/13%Rh–Pt	R	1400°C	0 to 1700°C
Nicrosil–Nisil	N	1000°C	200 to 1300°C
Chromel–alumel	K	700°C	200 to 1370°C
Chromel–constantan	E	550°C	200 to 1000°C
Copper–constantan	T	200°C	200 to 400°C
Iron–constantan	J	500°C	0 to 700°C

Thermocouple temperature sensing difference

Type	Properties
Ground	Thermocouple wiring directly connect to the bottom parts. Main features – fast response, working smoothly in high pressure environments. Disadvantage - low anti-interference performance
Non-ground	Thermocouple wiring is absolutely insulate against bottom parts. Response speed is slower than ground type. Longer service life. High anti-interference performance
Open wiring	Thermocouple with open wiring. Fastest response speed that can detect slight temperature change. Disadvantage - wiring without protection reduces service life.

How to order

TC		A	K	I		B	1.0
Model	Code	Head shape	Class	Accuracy class	Code	Wiring type	Wiring length (mm)
TC	A	Aluminum alloy - Round head	B	I	A	Ground	0.32
	B	Iron alloy - Round head	S	II	B	Non-ground	0.5
	C	SS 316 - Round head	R		C	Open wiring	0.65
	D	Aluminum – Clamp	N				1.0
	E	Epoxy coating - Round head	K				1.6
	F	Aluminum – explosion-proof	E				2.3
	G	Aluminum - explosion-proof	T				3.2
	H	SS 316 - explosion-proof	J				
	I	Digital display - explosion-proof					
	J	Bakelite - round head					

	S6		T	9	100	1
Code	Stem material	Code	Thermowell type	Outer diameter (mm)	Thermowell length (mm)	Measuring point
S4	SS 304	T	Threaded	1.0	50...2000	1
S6	SS 316	F	Flanged	1.6		2
C	ceramic	HT	Threaded (High pressure type)	2.3		
IN	INCONEL 600	HF	Flanged (High pressure type)	3.2		
Ti	Ti			4.8		
HA	Hastalloy			6.4		
ML	Monel			8		
				9		
				12.75		
				21.7		