

Product overview

The TTR sheathed thermocouple is of short thermal response time, dynamic error reduced, large measurement scope, high mechanical strength and good pressure-resistant properties. It has many advantages (such as being bent, resistance to high pressure, quick thermal response time and being sturdy and durable). Like industrial fabricated thermocouple, it, as the sensor for temperature measurement, is usually used in conjunction with display instrument, recording instrument and electronic regulator and can be also used as temperature-sensing element of fabricated thermocouple. It can be used to directly measure the temperature of liquid, steam and gas medium and solid surface within the scope of 0°C~1300°C in all kinds of production processes.

Product features



• Temperature measurement scope and allowable error

Graduation number	Tolerance level			
	I		II	
	Allowable error value	Temperature measurement range °C	Allowable error value	Temperature measurement range °C
K	±1.5°C	-415	±2.5°C	-40~+333
	±0.004(t)	375~1000	±0.0075(t)	333~1200
N	±1.5°C	-40~+375	±2.5°C	-40~+333
	±0.0041(t)	375~1000	±0.0075(t)	333~1200
E	±1.5°C	-40~+375	±2.5°C	-40~+333
	±0.004(t)	375~800	±0.004(t)	333~900
J	±1.5°C	-40~+375	±1.5°C	-40~+333
	±0.004(t)	375~750	±0.004(t)	333~750
I	±1.5°C	-165	±1°C	-173
	±0.004(t)	125~350	±0.00751(t)	133~1000
S	±1°C	0~+1100	±2.5°C	0~600
	±11+0.003(t-1100)	1100~1600	±0.0025(t)	600~1600

• Thermocouple wire diameter and material

Thermocouple wire form		Single type						Double type					
Diameter of bushing		Ø2	Ø3	Ø4	Ø5	Ø6	Ø8	Ø3	Ø4	Ø5	Ø6	Ø8	
Bushing material	E, J and T	1Cr18Ni9T						1Cr18N/9Ti					
	K and N	1Cr18Ni9Ti GH3030						1Cr18Ni9Ti GH3030					
	S	GH3039						GH3039					

Product model selection

TTR	sheathed thermocouple											
	Temperature-sensing element material M Nichrosi-nisiloy N Nickel-chromium-nisiloy E Nickel-chromium-copper nickel J iron-platinum-copper nicke T Copper-copper nickel											
	Logarithm of thermocouple wire 1 Single 2 Double											
	Installation type 2 Fixing thread 3 Fixed flange 4 Flexible pipe joint type 5 Fixing thread conical protection tube 6 Straight pipe joint type 7 Fixing threaded pipe joint type 8 Movable threaded pipe joint type 0 No fixed device											
	Junction box type E Explosion-proof type											
	Diameter of the protective tube S Ø16mm D Special customization											
	Working end form G Variable cross-section											
TTR-												