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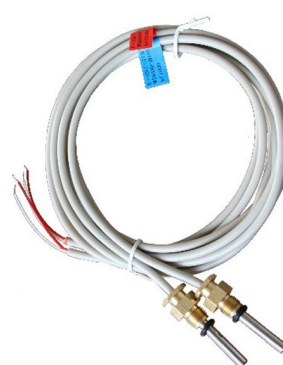
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C



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E

● Applications:

- * Industrial automation
- * Petroleum refining, natural gas
- * Chemical engineering, nonferrous metal
- * Metallurgical engineering, electricity station
- * Plastic molding tool and hot runner system etc.

● EMT/T Graduation:

- * **Thermocouple:** K, N, E, J, T, S, R, B etc.
- * **RTD:** Pt10, Pt100, Pt1000, Cu50, Cu100 etc.



Industrial thermometer with Pt100 sensor
SHV-Pt100 Series

Temperature Transmitter TTT Series

● Applications:

- * Equipment supporting
- * Medical devices, pharmacy equipment
- * Food, drink



Specifications	
Measuring range	-50 - 400℃
Power	24VDC or 12VDC
Input Signal	PT100, PT1000, thermocouples
Output	4-20mA, 24 VDC
Accuracy	±0.5% FS, ±0.2% FS
Electrical connetion	Aluminum-alloy terminal, 2 wires entry
Stem	OD 6mm, 7mm, 8mm, 9mm or 10mm, length customized
Process connection	1/4"NPT or 1/2"NPT, Tri-Clamp 1-1/2", Tri-Clamp 2", Flange etc.



SHTR-01

Paired Temperature Sensors for Heating System

With big Junction box, G1/2" stainless steel

Resistor type: Pt100, Pt500, Pt1000, class A, class B

Range: 0-135°C standard, 0-400°C available

Connection: Sliding connection, fixed connection with tube



SHTR-02

Paired Temperature Sensors for Heating System

With small Junction box, G1/2" stainless steel

Resistor type: Pt100, Pt500, Pt1000, class A, class B

Range: 0-135°C standard, 0-400°C available

Connection: Sliding connection, fixed connection with tube



SHTR-03

Thermocouple and RTD

Used for food, dairy, beverage, medicine, and chemical industries. Stem OD 1/4" (Φ6.35), L=2.5", 4", 6" etc.

Option: Material and connection of socket and stem



SHTR-04

Thermocouples for flue

Type S, R, B flue thermocouple series, integrated temperature transmitters available, use high temperature resistant and shockproof structure, have high temperature resistant, erosion resistant and airflow resistant strongpoints.



SHTR-05

Anti-abrasive thermocouples and RTDs

Applicable to sulfurization beds cement kilns.

EMT/T graduation : K, N, E, J, T, S, R, B; Pt100, Cu50, Cu100

Wear materials : N160WC40(sprayed), special alloyed thermowells



SHTR-06

Inert-gas-filled thermocouple

EMT/T graduation: S, R, K etc.

Material of thermowell : GH30 metal.

Fixed flange or connecting thread available



SHTR-07

Explosion-proof thermocouple and RTD series

EMT/T graduation: K, N, E, J, T, S, R, B, Pt100, Cu50, Cu100

Junction box: Aluminium, Stainless steel

Mounting option: Movable or fixed flange, Connecting thread

Flange standard: GB, HG, JB, HGJ, SH, ASMEB, ANSI, JIS

Armored element: Simplex or duplex



SHTR-08

Type 16000 thermocouple and RTD series

EMT/T graduation: K, E, J, T, Cu50, Pt100 etc.

Junction box: Stainless steel

Mounting option: Fixed flange, Connecting thread

Flange standard: GB, HG, JB, HGJ, SH, ASMEB, ANSI, JIS

Armored element: Simplex or duplex



SHTR-09

Water-proof thermocouple and RTD series

EMT/T graduation: K, E, J, Cu50, Pt100 etc.

Junction box: Stainless steel

Mounting option: Fixed flange, Connecting thread

Flange standard: GB, HG, JB, HGJ, SH, ASMEB, ANSI, JIS

Armored element: Simplex or duplex



SHTR-10

Movable flange thermocouple & RTD

EMT/T graduation: K, E, J, T, Cu50, Pt100 etc.

Junction box: Black plastic, Aluminium

Mounting option: Fixed flange, Connecting thread

Armored element: Simplex or duplex



SHTR-11

Welded thermocouple and RTD

EMT/T graduation: K, E, Pt100 etc.

Armored element: Simplex or duplex



SHTR-12

Multi-point armored thermocouples

For petroleum, petrochemical, gas, metallurgy industrial fields.

Single multi-point: Most points 6pcs, Max length 8m

Multiple multi-point: Most points 30pcs, Max length 150m

Protection class: General-sheathed or explosion-proof



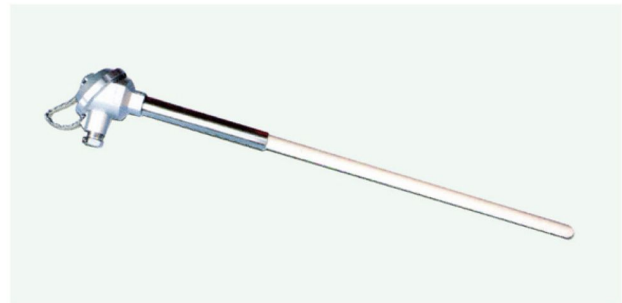
SHTR-13
90° angle thermocouple and RTD
EMT/T graduation: K, E, Pt100 etc.
Armored element: Simplex or duplex



SHTR-14
Type 700 thermocouple
 Quick response, simplex and duplex, connection 1/4" NPT, 3/8"NPT and 1/2"NPT etc.



SHTR-15
Type 1000 measurement tube thermocouple
 High-temperature alloy materials, inorganic & insulative materials and adjustable device can prevent heat loss. China Baosteel has used it to replace the same type of foreign products.



SHTR-16
Ceramic tube thermocouple
 Ceramic tube used as the outer protection tube, OD is $\Phi 10$, $\Phi 16$, $\Phi 20$, $\Phi 25$, single tube or double tube structure, thread or flange connection available.
EMMT/T: S, R for 0-1300°C; B for 0-1600°



SHTR-17
Thermowell for thermocouple and RTD
 IEC standard, protection tube with one piece material machined, no welding, maximal deep blind hole up to 1.5m, bearing high temperature and high pressure, corrosion-resistant type and flanged type available.



SHTR-18
Multifarious terminal boxes for thermocouple & RTD
Material: Aluminium, , Stainless steel 1Cr18Ni9Ti
Protection class: General or explosion-proof



SHTR-19

Thermocouple with insulated thermal pad

Used for plastic molding machineries, hot runners moulds, feed cylinders of rubber and sulfidizing machineries.

EMT/T graduation: K, E, J, T

Options:

Thickness mm	Hole	Length mm	Width mm	Wire length	Working end
0.5		30	25.4	0.5~5m	Welded top of pad
1.5	Φ5	22	10		
	Φ8	25	12		
6.5	Φ10	28	14		
	Φ5	16	10	Middle part of pad	
	Φ8	22	16		
	Φ10	22	16		



SHTR-20

Thermal resistance with thermal pad

Used for plastic molding machineries, hot runners moulds, feed cylinders of rubber and sulfidizing machineries.

EMT/T graduation: Pt100

Options:

Thickness mm	Hole	Length mm	Width mm	Wire length	Lead system	Working end
6.5	Φ5	16	10	0.5~5m	3 lines	Middle part of pad
	Φ8	22	16			
	Φ10	22	16			

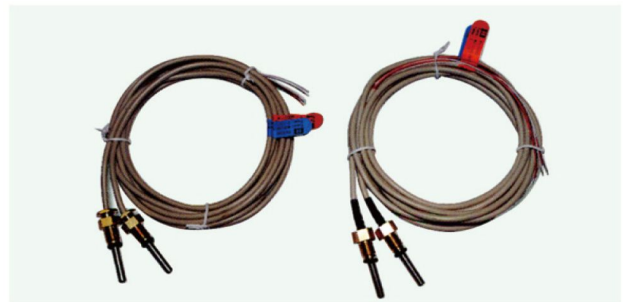


SHTR-21

Thermocouples especially for plastic molding machines

EMT/T graduation: K, E, J, T

Mounting style: screws, bayonet caps with compressed spring, movable nut with spring, etc.



SHTR-22

M1035-1500 temperature sensor pair, DS type

EMT/T graduation: Pt100, Pt1000

Cable material: Silicone rubber, PVC



SHTR-23

Special thermocouple and RTD with flexible wire

Used for bearing, solid surfaces, small pipes and positions hard to be access, with multifarious of mounting styles, oil-resistant and damp-proof flexible wires available.

EMT/T graduation: Pt100, K, E, J, T.



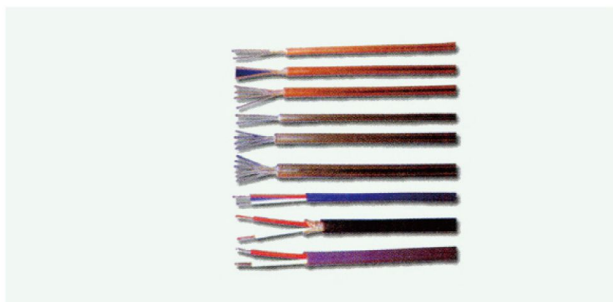
SHTR-24

Type 104 handle thermocouple

Direct-grip handle type, soft spring-wire and plug for conducting with portable digital instrument, probe OD Φ3-Φ8.

EMT/T graduation: K

Probe tube: High temperature resistant, corrosion-resistant material and PTFE available



SHTR-25

Compensating wires for thermocouples Cu-shielded compensating wires

Applicable to all types of thermocouples

Type: SC, KC, NC, KX, EX, JX, TX.



SHTR-26

Pt thermal resistance sensing elements

Pt100 : class A, class B

Thin-sheet Pt RTDs: L×W×H = 2.5×2×1.5

Thick-sheet Pt RTDs: L×W×H = 25.4×3.2×1.3

Porcelain based Pt RTDs: OD×L = (Φ1.6~Φ4)×(20~30mm)



SHTR-27

Thermocouples with mini connector

Used for fast temperature measurement, with cutting sleeve or clamp, connected and fixed very expediently, wire with discretionary length

EMT/T graduation: K, T, etc.

OD: Φ0.5, Φ1, Φ1.5, Φ2, Φ3, Φ3.2, Φ4



SHTR-28

Connectors for thermocouple and RTD

Flat connectors for thermocouples: J, K, T

Flat porcelain connectors for thermocouple: K

Flat connectors for RTDs: Pt100, Pt1000, tri-wire system

Connection for electric : Straight or 90° angle style

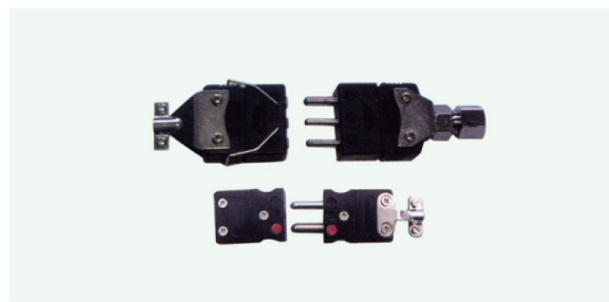


SHTR-29

Connectors with cutting sleeve

Used for connecting with type K or J thermocouple, the material of metal part is completely same as thermocouple's, the cutting sleeve suitable to fixup thermocouple and connector

Wire OD: Φ0.5, Φ1, Φ1.5, Φ2, Φ3, Φ3.2, Φ4 etc



SHTR-30

Connectors with clamp

Connection with thermocouples K and J

Connection with RTD Pt 100