

Product overview

The TPR armoured platinum thermal resistance is a temperature sensor, has a smaller diameter than that of fabricated platinum resistor, is easily bent with good antiknock characteristic and can be installed in the place where the fabricated platinum resistor cannot be installed. It is of short thermal response time with dynamic error reduced, small diameter, length not restricted, high measurement precision, imported thin film resistor elements used and reliable and stable performance.

Product features

- Thermocouple wire diameter and material

Thermocouple wire form	Single type	Double type
Diameter of bushing	Φ3 Φ4 Φ5 Φ6 Φ8	Φ4 Φ5 Φ6 Φ8
Bushing material	1Cr18Ni9Ti	1Cr18Ni9Ti

- Temperature measurement scope and allowable error

Graduation number	R(°C)Q	W(100°C)	Temperature measurement range and allowable error	
			Temperature measurement range °C	Allowable error
Pt10	10	1.385	-200~600	Grade A± 0.15 + 0.2% (0)
Pt100	100		-200~500	Grade M30/10.9



Product model selection

TPR	Armoured platinum thermal resistance											
	Armoured platinum thermal resistance 1 Single (d=Φ3~Φ8mm) 2 Double (d=Φ5~Φ8mm)											
	Mounting and fixation position 1 No fixing device (not applicable to flame-proof type) 2 Fixing cutting sleeve thread 3 Movable cutting sleeve thread (not applicable to flame-proof type) 4 Fixing cutting sleeve flange 5 Movable cutting sleeve flange (not applicable to flame-proof type)											
	Junction box type 0 No junction box (simple type) 2 Splash proof type 3 Water-proof type 4 Explosion-proof type 5 Type D water-proof type 6 Round plug-in type 7 Flat plug-in type 9 Compensating lead wire											
	Measuring end type 3 Three-wire system 4 Four-wire system											
	Lead variety X Use for general purpose V Used for heat resistance											
	Lead length S *** (300 indicates the lead length S=300mm, S=150mm in case of being not labeled)											
	Using temperature range L -200~100°C M 0~350°C H 0~600°C											
	Graduation number 10 pt10 100 pt100											
	Allowable error grade A Grade A allowable error± (0.15+0.2%t) B Grade B allowable error± (0.3+0.5%t)											
	Total length L *** (500 indicates total length L=500mm)											
	Diameter of bushing mm E Ø3.0 F Ø4.0 G Ø4.5 H Ø5.0 J Ø6.0 K Ø8.0											
	Insertion length I *** (100 indicates insertion length I=100mm)											
	Bushing material A 1Cr18Ni9Ti											
	Explosive-proof grade E Diibt4 EX DIICT4											
	Additional device The users should indicate at the moment of model selection											
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