

## Product overview



The TAR wear resistant thermocouple (thermal resistance) is a wear-resisting protective tube made from high-chromium iron and K alloy by the plasma spraying technology which greatly improves the abrasability, prolongs the service life, expands the temperature measurement range and applies to the occasions where the protective tube of the temperature sensor is seriously worn (such as power plant circulating vulcanized bed boiler, coal mill, cement plant and smelting plant).

## Product parameters

- Electrical outlet: M20x1.5, NPT1 / 2;
- Protection grade: IP65;
- Same as assembly type, thermocouple Level I, thermal resistance Grade A, and ordering goods as per the protocol;
- Non-wear-resisting part of protective tube material: 1Cr18Ni9Ti;

### • Wear-resisting protective tube:

Wear-resistant material	Temperature measurement range °C	Nominal pressure MPa	External diameter of protective tube (mm)	Model selection and code
Plasma spraying	0~1100	≤10	16,Φ18,Φ25 and Φ38	LM
High-chromium iron	0~1150	≤15	25,Φ38	CM
K alloy	0~1300	≤20	Φ25,25 and Φ28	KM

## Product model selection

TAR	Wear-resisting thermocouple (thermal resistance)				
	Classification of temperature sensing components Z Thermal resistance R Thermocouple				
		Temperature sensing element material P Platinum N Nickel-chromium-nisiloy E Nickel-chromium-copper nickel S Platinum rhodium10-platinum			
			Installation type 2 Fixing thread 3 Loose type flange 4 Fixed flange 6 Fixing thread conical protection tube		
			Junction box type 0 Jet-proof type 1 Water-proof type		
				Wear-resisting protective tube material LM Plasma spraying CM High chromium cast iron KM Hastelloy	
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