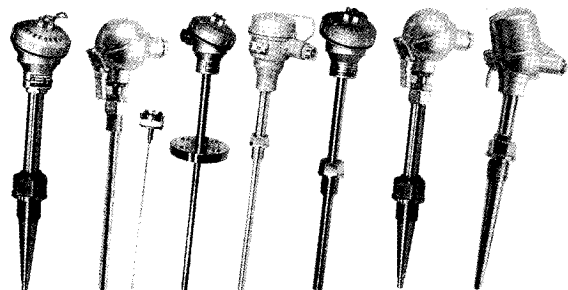


# WR□系列装配式热电偶

## WR□ SERIES ASSEMBLED THERMOCOUPLES



### 主要技术指标

### MAIN TECHNICAL SPECIFICATIONS

#### 热电偶类型、测量范围与允差

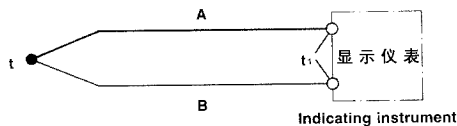
#### Measuring Range And Tolerance Of Various TC Type

类型 Type	代号 Code	测量范围(°C) Measuring Range(°C)	精度等级 Accuracy Class	允许偏差Δt(°C) (两者中取其大者) Tolerance Δt(°C) (Whichever is more)
B PtRh30-PtRh6	WRR	600 ~1700	II	±1.5(°C) or ±0.25%t
S PtRh10-Pt	WRP	0 ~1600	II	±1.5(°C) or ±0.25%t
K NiCr-NiSi	WRN	-40 ~+1000	I	±1.5(°C) or ±0.4%t
		-40 ~+1200	II	±2.5(°C) or ±0.75%t
N NiCrSi-NiSi	WRM	-40 ~+1100	I	±1.5(°C) or ±0.4%t
		-40 ~+1300	II	±2.5(°C) or ±0.75%t
E NiCr-CuNi	WRE	-40 ~+800	I	±1.5(°C) or ±0.4%t
		-40 ~+900	II	±2.5(°C) or ±0.75%t
J Fe-CuNi	WRJ	-40 ~+750	I	±1.5(°C) or ±0.4%t
			II	±2.5(°C) or ±0.75%t
T Cu-CuNi	WRT	-40 ~+350	I	±0.5(°C) or ±0.4%t
			II	±1(°C) or ±0.75%t

### 热电偶测温原理

如下图，选用两种不同的金属或合金丝A,B,称为热电极，焊接的一端称为测量端，连接显示仪表的两头称为参比端，当测量端和参比端温度不同时，就会产生热电势 $E_{AB}(t, t_1)$ 。当 $t_1=0$ °C时则有：

$$E_{AB}(t, 0) = E_{AB}(t) = f(t)$$



### PRINCIPLE OF THERMOCOUPLE

As shown in the left Figure, A and B thermocouple wires are made with different metal or alloy. The welded end t is the measuring junction. The Reference ends  $t_1$  are connected to the indicator. A thermal-electromotive force  $E_{AB}(t, t_1)$  will result when the temperature of the two ends differs. When  $t_1=0$ °C:

$$E_{AB}(t, 0) = E_{AB}(t) = f(t)$$

### 型号命名

### MODEL TERMINOLOGY

温度仪表 Temperature instrument	WR□	R:铂铑-铂铑 P:铂铑-铂 N:镍铬-镍硅 M:镍铬硅-镍硅 E:镍铬-铜镍 J:铁-铜镍 T:铜-铜镍	R:PtRh30-PtRh6 P:PtRh10-Pt N:NiCr-NiSi M:NiCrSi-NiSi E:NiCr-CuNi J:Fe-CuNi T:Cu-CuNi
热电偶 Thermocouple(Tc)	□□□□	空缺: 单支 2: 双支 3: 叁支	Blank:Single 2: Dual 3:Treble
热电偶基本结构 BASIC CONSTRUCTION OF THERMOCOUPLE	□□□□□□□□	1:无固定装置式 2:固定螺栓式 3:活动法兰式 4:固定法兰式 5:活动法兰角尺式 6:固定螺栓锥形保护管式 7:活动螺栓式	1:Non-fixed type 2:fixed screw-in type 3:movable flange type 4:Fixed flange type 5:Movable flange type with right angle type 6:Fixed screw-in type with tapered drilled tube type 7:Moovable screw-in type
接线盒型式 Head Type	□□□□□□□□	3:防水式接线盒 4:防爆型接线盒	3:Water-proof head 4: Explosion-proof head
保护管直径 Diameter of protection tube	□□□□□□□□	0:φ16mm 金属保护管 1:φ25mm 瓷保护管 2:φ16mm 瓷保护管 3:φ20mm 瓷保护管	0:φ16mm Metallic protection tube 1:φ25mm Ceramic protection tube 2:φ16mm Ceramic protection tube 3:φ20mm Ceramic protection tube
固定型式尺寸 Fitting forms & Size	□□□□□□□□	空缺:公制螺纹 A:英制螺纹 空缺(JB/T)标准法兰 A:(ANSI)标准法兰	Blank:Metric Unit A: British Unit Blank:Flange (JB/T standard) A: Flange (ANSI standard)
内芯结构 Construction of inner part	□□□□□□□□	空缺:普通型元件 (K):铠装型元件	Blank:General element (K): MI element

