

Model WE series is a self-standing probe that can measure temperature simply by placing the probe on the object to be measured.



Surface temperature measurement of hot plate 测量热板的温度分布

WE系列产品头部内装有砝码,无需手持按压,可自立于被测物表面测量。 减少姿势误差,更准确的测量表面温度。带握柄型的握柄也可拆卸, 便于在狭小空间内使用。

Typical probes of WE series 典型产品













How to order of WE series 选型



WE-<u>44K-GW1</u>-<u>ANP</u>

1 Head size	No grip type			
and Temp. range	11: \$\$20mm \times 34mm -50~250°C			
头部大小和温度范围	12: \$20mm × 34mm -50~500°C			
	21: \$\$0mm × 34mm -50~250°C			
	22: \$30mm×34mm -50~500°C			
	31: \$20mm×15mm -50~200°C			
	42: \$30mm × 23mm -50~500°C			
	Grip type			
	13 : ¢20mm×39mm −50~250℃			
	14: \$\$20mm × 39mm -50~500°C			
	23: \$\$0mm × 39mm -50~250°C			
	24: \$\$0mm × 39mm -50~500°C			
	33: \$20mm×15mm -50~200°C			
	44: \$30mm × 23mm -50~500°C			
Thermocouple type	K : Chromel-Alumel			
热电偶种类	E : Chromel-Constantan			
Cable type and length	TS1 : For WE-11, WE-13, WE-21, WE-23			
导线种类和长度	GW1 : For WE-12, WE-14, WE-22, WE-24,			
(See page 9)	WE-42, WE-44			
	TA1*: For WE-31, WE-33			
	Standard specifications : 1m			
	The cable length can be specified each 0.5n			
Plug	ANP (For AM-9***, HR-1*5*, AP-450, AR-650*)			
播头	ASP (For HR-1*0*, AP-400)			
(See page 8)	W (Without plug)			

%Fluororesin insulated thermocouple (φ0.9mm)

The resistance value of the TA cable is $160\Omega\,/\,m.$

Please be careful about source resistance of the thermometer.





O Thermocouple type

热电偶种类

% Select the same type of thermocouple as thermometer.

K	E
Туре К	Type E

Cable type and length 导线种类和长度

Standard	Outer diameter	Heat resistant 240°C 300°C	
TS1 * For WE-11, WE-13, WE-21, WE-23	¢2.3mm		
GW1 * For WE-12, WE-14, WE-22, WE-24, WE-42, WE-44	1.2mm×1.7mm		
TA1 * For WE-31, WE-33	Φ0.9mm	200°C	

※Standard specifications:1m

The cable length can be specified each 0.5m.





Specifications of WE series 规格

Model number *1 Thermocouple type Temp. range #2		WE-11 WE-13 WE-21 WE-23	WE-12 WE-14 WE-22 WE-24	WE-31 WE-33	WE-42 WE-44	
		Type K or E				
		-50~250°C	-50~500°C	-50~200°C	-50~500°C	
Tolerance **	-50°C	±2.5℃	±2.5℃	±2.5℃	±2.5℃	
	00	±2.5℃	±2.5℃	±2.5℃	±2.5℃	
	100℃	±2.5℃	± 2.5℃	± 2.5℃	±2.5℃	
	200℃	±2.5℃	±2.5℃	±2.5℃	±2.5℃	
	300°C	14	±2.5℃	÷	±2.5℃	
	400°C	-	±3.0°C	-	±3.0°C	
	500℃	-	±3.8℃		±3.8℃	
	Tolerance calculation method t:Temperature(°C)	At within temperature range $-50^{\circ}C \le t \le 500^{\circ}C : \pm 2.5^{\circ}C \text{ or } \pm (0.0075 \times t)^{\circ}C$, whichever is greater				
Response time #4		1s	1s	2s	2.5s	
Durability *5		A (More than 50,000 contacts)				
Guard materials		Fluororesin	Stainless (SUS303)	Inconel	Stainless (SUS304)	
Body material		Stainless (SUS303)				

%1 The model number after thermocouple type is omitted.

%2 The operating temperature limit is determined by the allowable temperature limit of the sensor head contacts the measurement target. Note that the operating temperature limit is not the same as the allowable temperature limits of the grip, cable, and plug.

%3 Tolerance is available at -50°C or above within the operating temperature on a stationary flat and smooth metal surface. For tolerance at temperature not listed in the above table, please refer to calculation method of tolerance.

#4 The response time is the time required to detect 99% of the true value on a flat and smooth metal surface.

%5 Number of contacts enabling measurement within the tolerance range on a flat and smooth metal surface at a temperature of 300°C (or at the operating temperature limit if the operating temperature limit is below 300°C)