

STANDARD THERMOCOUPLE

The standard thermocouple thermometer is a temperature measuring standard device produced by our company. There are two types of standard platinum rhodium 10%/platinum thermocouple and standard platinum rhodium 30%/platinum rhodium 6% thermocouple. The standard platinum rhodium 10%/platinum thermocouple uses the temperature range of $419.527^{\circ}\text{C} \sim 1084.62^{\circ}\text{C}$ to achieve the thermocouple temperature measurement value transfer and precision temperature measurement, the accuracy grade has one standard and second standard. The standard platinum rhodium 30%/platinum rhodium 6% thermocouple is used for the temperature transfer and precision temperature measurement of the thermocouple temperature measurement in the temperature range of $1100^{\circ}\text{C} \sim 1500^{\circ}\text{C}$, and the accuracy grade has the second

standard.

The structure is simple, the accuracy is high, the physical and chemical properties are good, the oxidation resistance is strong at high temperature, and the stability of heat electromotive force and reproducibility are excellent.



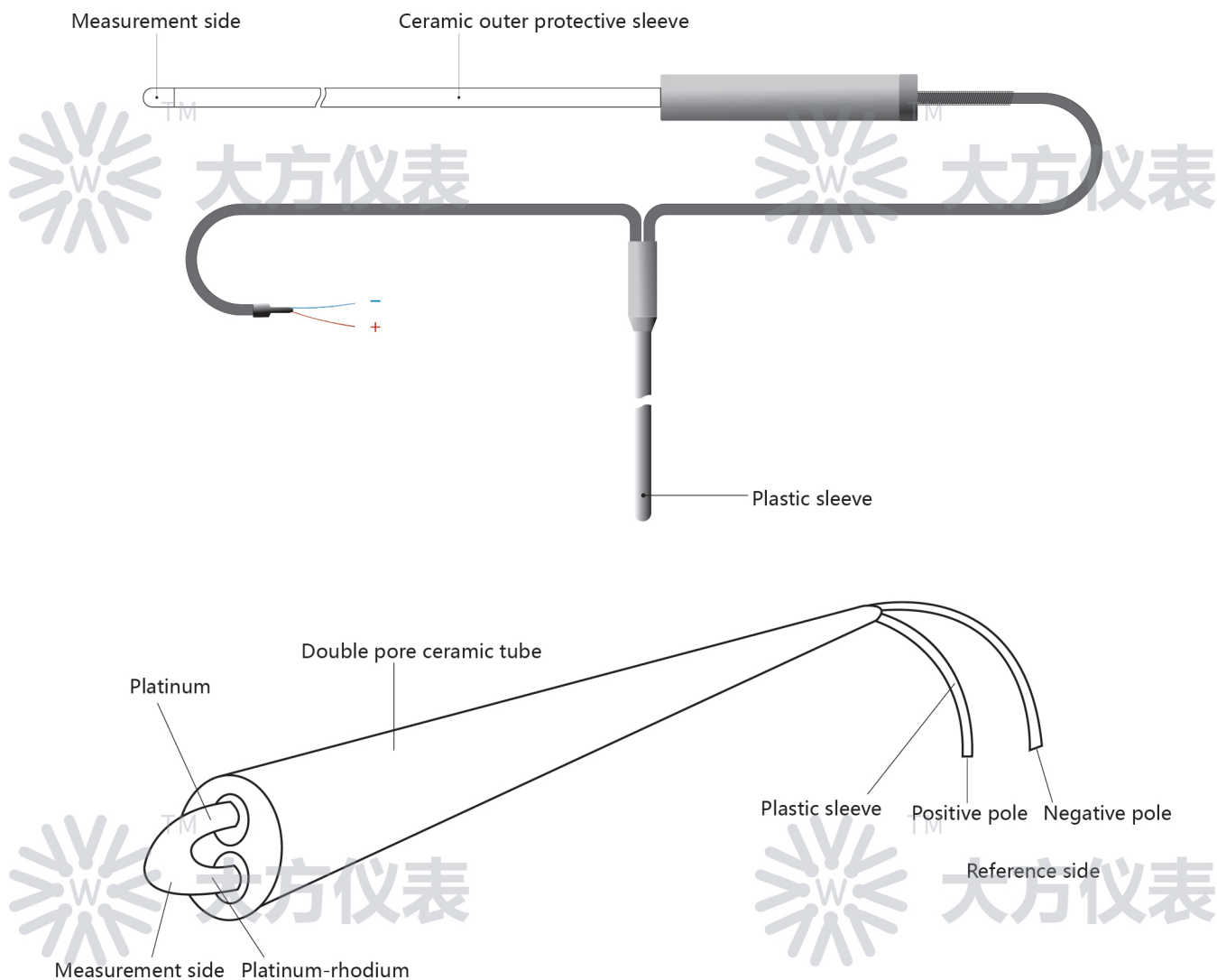
How to order?

Model: WRPB-1 or Model WRPB-2

Model: WRRB-1

NEED “with calibration certificate”
or “without calibration certificate”.

 | <http://www.yndfmeter.com/> 



Standard Thermocouple Diagram

Main Technical Parameters

Model	Standard Platinum-10% Rhodium/Platinum Thermocouple		Standard Platinum-30% Rhodium/Platinum-6% Rhodium Thermocouple
Model Numbers	WRPB-1	WRPB-2	WRRB-2
Range	0°C~1300°C		1100°C~1600°C
Accuracy grade	First standard	Second standard	Second standard
Extended Uncertainty	U=0.5°C (k=2)	U=0.7°C (k=2)	U= 3.2°C (k=2)
Stability	Better than 3uV	Better than 5uV	Better than 8uV
Heat Electromotive Force Range	$E(t_{Cu})=10.575\pm0.015mV$ $E(t_{Al})=5.860+0.37[E(t_{Cu})-10.575]\pm0.005mV$ $E(t_{Zn})=3.447+0.18[E(t_{Cu})-10.575]\pm0.005mV$		$E(1100^{\circ}C)=5.780\pm0.025mV$ $E(1500^{\circ}C)=10.099\pm0.040)mV$
Electrode Size	Diameterφ0.5mm Length is not less than 1000mm.		