



HIGH TEMPERATURE STANDARD PLATINUM RESISTANCE THERMOMETER (HSPRTS)

The standard platinum resistance thermometer is a standard instrument for measuring the temperature of a metal platinum wire according to the single value of the resistance value of the temperature. The ITS-90 international temperature scale specifies that the standard platinum resistance thermometer is an interpolation instrument between 13.8033K (-259.346 °C) and 961.78 °C. The reference function of the standard platinum resistance thermometer from 0°C to 961.78°C in the ITS-90 international temperature scale is determined by the characteristics of a high-temperature platinum resistance thermometer in Yunnan, China and Germany. The standard platinum resistance thermometer is the thermometer with the highest accuracy and stability when measuring temperature under current production conditions.

The high temperature standard platinum resistance thermometer is a stan-

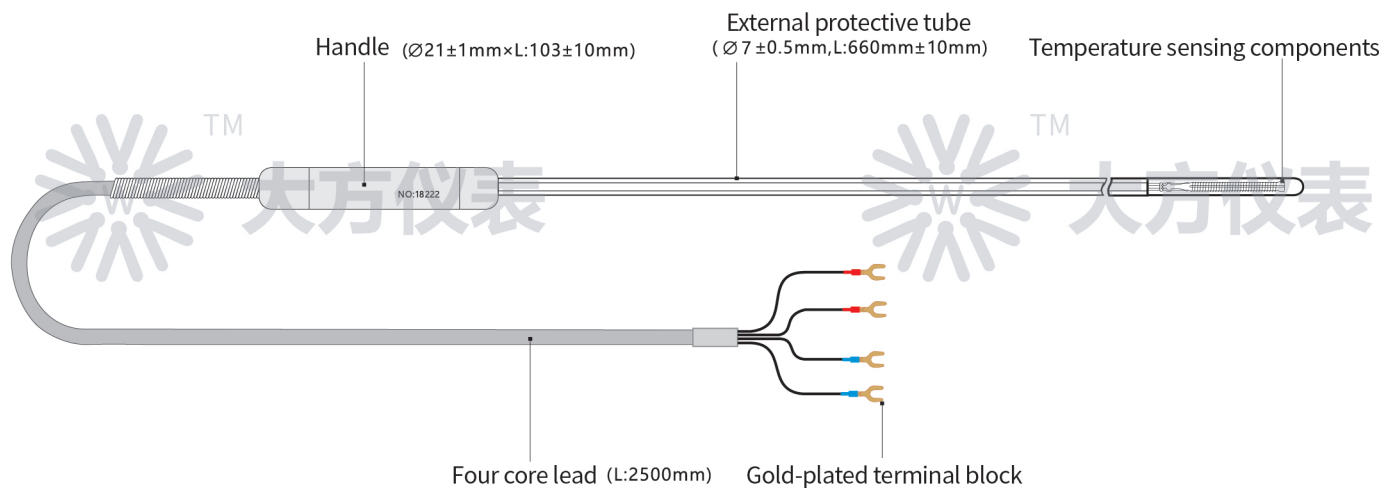
dard instrument for transmitting international temperature standards. It can also be used directly for temperature measurement with high accuracy requirements.



How to order?

Model WZPB-3 0.25Ω OR Model WZPB-3 2.5Ω

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



Structural diagram of high-temperature standard platinum resistance thermometer(mm)

Main Technical Parameters	
Model	WZPB-3
Accuracy Level	Primary Benchmark
Temperature Range	0℃~961.78℃
R _{tp} (Ω)	0.25 or 2.5
Resistance Ratio	W _{Gg} ≥1.11807 W _{Ag} ≥4.2844
Excitation Current(mA)	1
Long Term Drift	14.14 or 5
At 0.01℃/year(mK)	4
Autothermal Effect(mK)	≤3
Stability(mK)	≤2
Protection Tube Type	quartz
Protective Tube Outer Diameter (mm)	φ7±0.5
Protection Tube Length (mm)	660±10
Insulation Resistance	>1000MΩat ambient temperature
Handle Size (mm)	φ21*103
External Leads	Four-Wires/2.5m/Gold Plated Terminal Blocks
Verification Procedures	JJG985-2004 《High Temperature Platinum Resistance Thermometer Working Reference Device》