

96178

High temperature Standard Platinum Resistance Thermometer, Silver Point HTSPRT, Primary laboratory, 0°C to 1000°C

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Description

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Key features:

- High stability
- Unique “aspirated” design
- Ultra-high purity Quartz

First, the 96178 can breathe, a valve in the handle can be opened to allow oxygen depletion or moist air to escape from inside the sheath and be replaced by fresh air containing 20% oxygen. The valve is normally opened at elevated temperatures and closed to prevent moisture ingress before Water Triple Point measurements are performed.

Second, the 96178 is the only thermometer ever designed with platinum heat radiation shields built into the sheath, to prevent heat radiating up inside the sheath.

Third, a new ultra pure quartz, developed for the semiconductor industry, has been adopted for use in the construction of the 96178. It enables the thermometer to achieve the highest possible quality and minimum of contamination.

How the thermometer is handled is most important for its stability. Every purchaser will receive a comprehensive manual and tutorial with each 96178. Under some circumstances, provided the interior of the thermometer is undamaged we can replace the outer quartz sheath. Please consult us if a replacement is required.

To exploit fully the accuracy of the 96178, we recommend users to use a furnace for warming and annealing the thermometer as well as one to house the Silver Point / Aluminum Point cells. Consult the sections of our website dedicated to Fixed Point realization and annealing and to dual calibration furnaces that combine these two features together with all the special accessories.

Specifications

Model 0.25 Ω:

Reference	Temperature range	Sheath	Diameter	Length	Standard
96178/0.25	0 to 1000°C	Silver	7.5 mm	650 mm	ITS-90

Models and accessories

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Delivered in standard with:

- Traceable certificate at Water Triple Point and Fixed Point of Gallium
- Carrying case