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Precision freezer PRT

35 Vantage Point Drive Rochester, NY 14624 Call 1.800.800.5001



- Fully immersible probe assembly to -100 °C
- NVLAP-accredited calibration, lab code 200706-0
- Accuracy to ± 0.05 °C over the full range

If you need a precision measurement at low temperatures, do not look any further than Hart Scientific.

The 5623B, precision "freezer probe," is specially sealed from the sensing element to the end of the probe cable, preventing ingress of moisture when exposed to temperatures as low as -100 °C. The entire assembly withstands temperatures over its full range (-100 °C to 156 °C), which is ideal for verification of freezers or autoclaves where a thermo-well isn't available. The 5623B assembly can be fully immersed in fluids when the application may require use in a liquid bath. The 5623B is available in a 6.35 mm (0.25 in) dia. × 125 mm (6 in) long Inconel™ sheath. With calibration uncertainty of only \pm 0.010 °C at 0 °C, the 5623B is just right as a secondary standard for calibration of other process sensors.

Most Hart Scientific readouts make an excellent companion for the 5623B. We recommend the use of the 1523, 1524, 1502A, 1529, or 1560 thermometer readouts.

With each 5623B, you receive a full NVLAP-accredited calibration report, lab code 200706-0. This report includes test data and ITS-90 calibration coefficients to enter into your Hart Scientific thermometer readout.

Specifications	
Resistance	Nominal 100 Ω (± 0.1 Ω)
Temperature Coefficient	0.003925 $\Omega/\Omega/^{\circ}$ C nominal
Temperature Range	−100 °C to 156 °C
Transition Temperature	−100 °C to 156 °C
Drift Rate	\pm 0.01 °C per year maximum at 0 °C, when used periodically at max temperature
Sheath Material	Inconel [™] 600
Leads	Teflon [™] -insulated, silver- plated stranded copper, 22 AWG.
Termination	Specify. See ordering information.
Calibration	Includes manufacturer's NVLAP-accredited, lab code 200706-0, calibration and table with R vs. T values in 1 °C increments from -80 °C to 156 °C. ITS-90 coefficients included.
Calibrated Accuracy [†] (k=2)	\pm 0.05 °C over the full range
Cable Length	6.1 meters (20 ft)
Size	6.35 mm (0.25 in) dia. x 152 mm (6 in)
¹Includes calibration uncertainty and drift.	

Ordering Information

5623B-6-X Freezer Probe, RTD 6.35 mm dia. x 152 mm (1/4 in x 6 in), -100 °C to 156 °C

2601 Probe Carrying Case

X = termination. Specify "A" (INFO-CON for 914X), "B" (bare wire), "D" (5-pin DIN for Tweener Thermometers), "G" (gold pins), "I" (INFO-CON for 1521 or 1522), "J" (banana plugs), "L" (mini spade lugs), "M" (mini banana plugs), "P" (INFO-CON for 1523 or 1524), or "S" (spade lugs).

