

# HVAC/R Sensors



## Thermal Vial™ Temperature Sensing System

- Ideal for ultralow freezers, laboratories, blood banks, walk-in freezers and refrigerators, even incubators — anywhere accurate sensing of the contents instead of the air is a vital concern.
- Sealed polyethylene Thermal Vial™ virtually eliminates spillage and contamination. Simply fill with fluid such as ethylene glycol, alcohol, water, or a cryopreservative to accurately emulate the material being stored or processed.
- Large (50 mm × 50 mm) footprint provides stability on a shelf or rack. Holds 175 ml (6 oz) of fluid.
- 100 Ω Platinum RTD probe is constructed of 316 Stainless Steel and operates to -269°C (-452°F).
- Cable is reinforced with stainless steel braid for ruggedness.
- 4-20 mA transmitter is match calibrated to the RTD for ±0.75% of span system accuracy.
- NIST certificate and calibration data supplied at no additional cost.

### Specifications

**Temperature range:**  
 Probe and vial: -269 to 120°C (-452 to 248°F).  
 Transmitter: -25 to 85°C (-13 to 185°F).  
**RTD probe:** 100 Ω Platinum;  
 TCR = 0.00385.  
**Transmitter:** 4 to 20 mA output;  
 8.5 to 35 VDC loop powered.

### How to order

AS101436	<b>Assembly number:</b> AS101436: Standard construction AS102437: Washdown compatible
PD	<b>100 Ω platinum RTD</b>
72	<b>Cable length in inches</b>
M	<b>Temperature range for 4-20 mA output:</b> AT = -100 to 40°C (-148 to -40°F) EZ = -100 to 0°C (-148 to 32°F) LN = -100 to 100°C (-148 to 212°F) M = -50 to 50°C (-58 to 122°F) BC = -10 to 30°C (-22 to 86°F) N = 0 to 50°C (32 to 122°F) Other ranges are available. See page 5-10.
AS101436PD72M ← Sample P/N	

### Washdown compatibility

The washdown compatible Thermal Vial includes a polycarbonate housing and PTFE sensor cable for compatibility with the chemicals commonly used.

