

Model LTS and LTS-V Temperature Sensor

SPECIFICATION SHEET



- NIST certificates are available.
- 10' of wire included with each sensor, more available for purchase
- Vials (LTS-V) filled with glass beads are designed to mimic a medicine bottle
- For models, VM605E, VM505E, VM505, M303, M305, CM712, MA412

Description:

The LTS (Low Temperature Submersible) temperature sensors incorporate a Class B, wire wound platinum RTD sensor which conforms to DIN-IEC-751 and DIN 43760 platinum RTD standards. They are designed to withstand extreme temperature fluctuations that cause issues with standard temperature sensors in a typical freezer application.

LTS-V vials are approximately 1.5" wide and 3.5" tall.

Specifications

Sensor Output	1000 Ohms @ 32°F (0°C)
Sensor Accuracy (single point)	+/- 0.54°F @ 32°F (0°C)
Sensor Accuracy (formula)	$0.3^{\circ}\text{C} + 0.005 \times [t] = \text{max. error } ^{\circ}\text{C}$ **
Sensor Accuracy Class	Class B Tolerance
Stability	Less than +/- 0.1°C drift
Repeatability	+/- 0.2°C (+/- 0.36°F)
Operating Temperature Range	-198 to 150°C (-324 to 302°F) w/o vial LTS -198 to 130°C (-324 to 266°F) with vial LTS-V
Temp. Coefficient	0.00385 Ohm/Ohm/°C
Standardization	DIN-IEC-751 (formerly DIN 43760)

** [t] = Numerical value of the temperature in °C without taking into account positive or negative signs.

