

## Model LTS and LTS-V Temperature Sensor

### Specification Sheet



**LTS**



**LTS-V**

- NIST certificates are available and recommended if storing vaccines
- 10' of wire included with each sensor, more available for purchase
- Vials filled with glass beads are designed to mimic a medicine bottle
- For all Temperature Guard Models

### 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.

### 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    | <div>LTS</div> <div>LTS-V</div> -198 to 150°C (-324 to 302°F) w/o vial<br>-198 to 80°C (-324 to 176°F) with vial |
| 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.