

# K105T Wireless Cryogenic Sensor



High Accuracy for **extreme** conditions

## K105T Wireless Cryogenic Sensor

The Kelsius Wireless Cryogenic Sensor is an integral part of any high accuracy temperature measuring system, especially where extreme high and low temperature conditions exist.

Temperature Range +200C to -200C.

The Cryogenic Sensor communicates wirelessly with the Network Controller with a range of up to 100m.

The unit itself can be placed, for example, on top of the cold-box / freezer cabinet and the 3m thermocouple wire can be coiled inside the cabinet.

The tough 7-strand thermocouple cable provides extra strength against rough handling.

Each cable is insulated with an overall clear Teflon insulation providing extra protection in extreme temperature environments.

Suitable for Liquid Nitrogen applications.

Applications:

- ✓ Liquid Nitrogen
- ✓ Biological Samples
- ✓ Electronic Components



Temperature



Radio Transmission

Specification	
<b>Product Code:</b>	K105T
<b>Battery Lifetime:</b>	Battery Lifetime: 1 year (5 minute transmission interval)
<b>Battery Type:</b>	Battery Type: 2 x 1.5V size C
<b>Range:</b>	Range: 100 meters. (greater with Kelsius Repeaters)
<b>Radio Freq Band:</b>	868MHz (Europe)
<b>Typical Accuracy:</b>	+/- 0.2°C
Temperature Point	Maximum Expected Error K105 Transceiver
-200°C to -100°C	±1.0°C
-100°C to 200°C	±0.5°C
Temperature Point	Maximum Expected Error Thermocouple
-196°C	±2.94°C
-0°C	±0.5°C
121°C	±0.5°C
200°C	±0.8°C