

Ultra Cold Temperature Sensor (UCTX)



Suitable for temperatures as low as -200°C (-328°F). Ideal for monitoring vaccines and medical products based on mRNA technology that require ultra cold storage. The sensor uses a platinum probe that varies in resistance with temperature changes.

The sensor has good stability with immunity to electrical noise making it also suitable for use in industrial environments as well as medical applications.

Technical Specification

Temperature	
Measurement Range	-200°C to $+150^{\circ}\text{C}$ -328°F to $+302^{\circ}\text{F}$
Measurement Resolution	0.1 $^{\circ}\text{C}$ increments 0.2 $^{\circ}\text{F}$ increments
Measurement Accuracy	Typical : * $\pm 0.15^{\circ}\text{C}$ * $\pm 0.3^{\circ}\text{F}$
Interface	
Communications cable	RJ-45 jack to sensor using UTP CAT5e/6 cable
Power source	Powered by the sensorProbe+ family units. No additional power needed
Maximum Cable Length	Length The UCTS sensor can be extended from the RJ-45 Intelligent Sensor ports on the base units up to 60 feet, or 18 meters using standard CAT5/6 LAN cable
Dimension	75 x 55 x 27 mm
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
Operating Environment	Temperature : Min. -35°C – Max. 80°C Humidity: Min. 20% – Max. 80% (Non-Condensing)
Sensor count	1
Important Note	Compatible only with sensorProbe+ platform

UCTxx - Technical Drawing

