Wireless Ultra Cold Temperature Sensor (WTS-UCT)

Wireless Ultra Cold Temperature Sensor

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.

Wireless Tunnel™ Antenna

IP66 waterproof enclosure

Platinum Probe

WTS-UCT - Technical Specification

Sensor Type	PT100 RTD type sensor
Temperature	
Measurement Range	-200°C to +150°C -328°F to +302°F
Measurement Resolution	0.1°C increments 0.2°F increments
Measurement Accuracy	Typical : * ±0.15°C * ±0.3ºF
Gateway Sensor Count	4 (3 + 1)
Status Indication	LED indication for - Mode - Status - RSSI
Operating Environment	Temperature : Min. -35° C – Max. 80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
LoRa (R) Radio Regional plans	- EU868 : 863~868Mhz Max TX Power +14dBm Duty Cycle 1% - US915: 903~915Mhz Max TX Power +17dBm - AS923 : 920~925Mhz Max TX Power +14dBm Duty Cycle 1% - KR920 (Korea) : 922~923Mhz Max TX Power +14dBm Duty Cycle 1% - IL917 (Israel) : 915~917Mhz Max TX Power +14dBm Duty Cycle 1%
Certification	FCC Part15C, CE EN300220-2
Power source	4x AA batteries or via micro USB port

WTS-UCT - Technical Drawing