



# Cloudleaf Sensor™

## Model S2 (Low Temp Sensor)

With a thicker battery for lower temperatures, the Low Temp Sensor is an industrial grade sensor that tracks location, acceleration, shock, vibration and temperature, has a 2 year battery life and supports over-the-air (OTA) configuration and update.

A sophisticated, lightweight, battery-operated device, the Model S2 (Low Temp Sensor) is part of the full stack Cloudleaf Sensor Fabric™—providing asset location and sensory data, while collecting (end-node) information, such as environmental conditions in real-time.

Utilizing proven wireless technology standard (BLE) to communicate between zone sensors and gateways, all security features in the Bluetooth specifications can be enabled, including native 128-bit AES encryptions for end-to-end communications.

Each sensor carries a unique ID that links the tracked material. During the setup process, additional asset data like serial number, name or category can be assigned. Sensors can be provisioned in bulk via a .csv file upload and or individually using a mobile app.

Sensors can be mounted onto assets in a variety of ways to track them across indoor, outdoor and in-transit environments, providing a range of applications.

## Features

<p><b>Low Temperature</b></p>  <p>Suited for ultra low temperature processes</p>	<p><b>Long Range</b></p>  <p>Up to 150 Ft. omni-directional line-of-sight (LOS) range</p>	<p><b>Bidirectional Communication</b></p>  <p>Supports bidirectional communication and over-the-air (OTA) configuration and update</p>	<p><b>Temperature Sensing</b></p>  <p>Configurable temperature sensing (event or time-based)</p>
<p><b>Condition Sensing</b></p>  <p>Acceleration, vibration and shock read (event-based)</p>	<p><b>Flexible Mounting</b></p>  <p>Multiple mounting options include adhesive, cable ties, screws, and lanyard</p>	<p><b>Configurable Sampling</b></p>  <p>Configurable sample rates (2 seconds to minutes)</p>	<p><b>Easy Provisioning</b></p>  <p>Quick mobile and/or bulk provisioning</p>

## Specifications

- Dimensions: W23mm x L39mm x H21mm
- Operating Temperature: -40 to 85°C
- Operating Humidity: 0 to 95% RH
- Tracking capabilities: location, temperature, acceleration (3-Axis), shock, vibration
- Temperature precision (+/-) 2%
- IP-66 and 67 compliant
- 2 year battery life
- Security: AES-128 CCM and HASH Lite encryption