



DATA SHEET



# Cloudleaf Sensor™

## Model S3.2 (0-30VDC Analog Sensor)

The 0-30VDC Analog Sensor is an industrial grade sensor that allows high precision sensors to connect to existing machines, collecting data from two analog DC voltage sensing inputs.











A sophisticated, lightweight, battery-operated device, the Model S3.2 (0-30VDC Analog 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>Long Range</b></p>  <p>Up to 150 Ft. omni-directional line-of-sight (LOS) range</p>	<p><b>Configurable Sampling</b></p>  <p>Event or time based sampling and data transport</p>	<p><b>External Inputs</b></p>  <p>Two analog inputs from external control systems</p>	<p><b>Read Only</b></p>  <p>Read-only module included</p>	<p><b>Easily Portable</b></p>  <p>All wireless and self-powered</p>
<p><b>Industrial Interfaces</b></p>  <p>Interfaces to thousands of industrial external sensors</p>	<p><b>Easy Deployment</b></p>  <p>Enables quick deployment without complex engineering or integration</p>	<p><b>Location Tracking</b></p>  <p>Location tracking along with external sensor data measurement</p>	<p><b>Bidirectional Communication</b></p>  <p>Supports bidirectional communication and over-the-air (OTA) configuration and update</p>	<p><b>Easy Provisioning</b></p>  <p>Quick mobile and/or bulk provisioning</p>

## Specifications

- Dimensions: 53mm x 105mm x 22 mm
- Operating Temperature: -10 to 55°C
- IP-52 compliant
- Tracking capabilities: location, seismic, temperature, carbon monoxide/dioxide, rel. humidity, fluid dynamics, G-force measurements, etc.
- 2 year battery life
- Two 0-30VDC analog DC voltage sensing inputs
- Operating Humidity: 0 to 95% RH
- 12 bit data sampling
- Security: AES-128 CCM and HASH Lite encryption