SwiftSensors

Wireless Temperature and Humidity Sensor - 101

Part Number: SS-SEN-101

Overview

Swift Sensors Wireless Temperature and Humidity Sensor measures ambient temperature and relative humidity near the sensor. This sensor is ideal for buildings, restaurants, refrigerated enclosures, and greenhouses. Users can set the frequency of measurement and thresholds for notifications via SMS text, email, and phone call.

Simple, Plug-and-Play Deployment

Place the small battery-powered sensor in the location or on the equipment you need to monitor. The Swift Sensors Bridge automatically identifies the sensor and establishes communication. No wires to connect. No software to install.

Secure, Scalable, Cloud Architecture

The system is 100% cloud-managed. The bridge securely transmits sensor data to the Swift Sensors Cloud using 256-bit AES encryption. The system is scalable from a single sensor, one site application to multi-site enterprises with thousands of sensors.

Real-time Monitoring and Analytics with Actionable Data

Swift Sensors Dashboard allows real-time asset monitoring and sophisticated analysis from anywhere – on a computer, tablet, or smartphone. Data analytics provide operational insights and deep visibility. SMS text, email, and phone call notifications can be set based on customizable threshold values and complex rules by individual sensors or sensor groups.

Applications

- Restaurants and Food Service
- Cold Chain Monitoring
- Manufacturing and Production
- Facility Monitoring
    Datacenters
    Warehouses
    Greenhouses
- Building and Energy Management

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Sensor Measurement Specifications:

Temperature

Range	-40°F to +185°F (-40°C to +85°C)
Accuracy	1.8°F (1°C) Increased by user calibration to ± 0.45°F (± 0.25°C)
Type	IC

Humidity

Range	0% - 100% RH
Accuracy	± 4% RH

Sensor Operational Specifications:

Power	Replaceable 3.0V coin cell battery
Battery Life	1 - 3 years, depending on measurement frequency
Communication*	BLE 4.0: 2.4 GHz, 125 - 150 ft, non line-of-sight
Data Storage	Up to 72 hours when communication not available
Enclosure	ABS plastic
Dimensions	2.375" x 1.375" x 0.5625"
Operating Temperature	-40°F to +185°F (-40°C to +85°F)
Certifications	FCC

*BLE communication is best suited for low EM noise environments where physical automation (e.g. robotics) is minimal.

Swift Sensors Bridge

The Swift Sensors Bridge collects data via BLE or RF from sensors located within the specified communication range (< 150 ft.) and then transmits the sensor data to the Swift Sensors Cloud through either Ethernet, Wi-Fi, or cellular. The bridge auto-detects all sensors within range and will immediately establish secure communication without any user configuration or setup.

Swift Sensors Dashboard

All sensor data is logged and stored in the Swift Sensors Cloud. The Swift Sensors Dashboard is configured to monitor and track all sensor data in the cloud. Multiple thresholds and alerts can be set separately for each sensor to supply notification via SMS text, email, or phone call. The dashboard can be viewed in a web browser on a computer, tablet, or smartphone. No programming is required to configure the dashboard. An API to the Swift Sensors Platform allows integration with other data sources and 3rd-party data analytics tools.