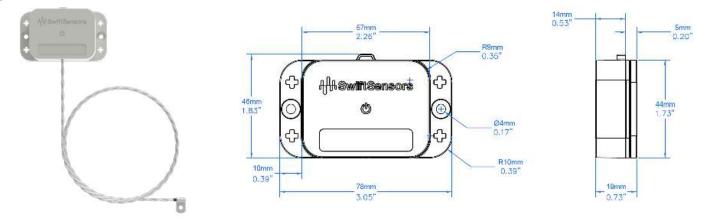
SwiftSensors



Wireless Water Resistant Temperature Sensor - 103

Part Number: SS3-103

Overview

Swift Sensors Wireless Ring Lug Temperature Sensor includes a 1m NTC temperature probe with a metal ring lug termination and can measure temperatures between -40°C to +125°C (-40°F to +257°F). The 1m (3 ft.) NTC probe uses thin wire leads (braided 28awg) and terminates with a lug for mounting on a wall or inside an enclosure. The thin wire leads allow the ring lug to be routed inside a refrigeration or cooler door without creating a noticeable loss of cooling. This sensor is ideal for refrigerated enclosures, wet environments, factories, and greenhouses. The sensor enclosure is water-resistant and dustproof with a rating of IP66. Users can set the inspection rate 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. Sensors are powered with 2 AAA lithium polymer batteries with an average lifespan of 6 - 8 years. Sensors can be powered on or put into sleep mode by pressing the center of the sensor. A green LED in the sensor blinks when the sensor powers on, turns solid when transitioning to sleep mode, and will blink when the "Find my Sensor" command is sent from the Console. All sensors send encrypted data to the gateway.

Secure, Scalable, Cloud Architecture

The system is 100% cloud-managed. The gateway 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 Console 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.



| Operational Specifications: | |
|-----------------------------|---|
| Power | 1.8 - 3.6VDC, 0.05mW Average |
| Battery Type | AAA x2 Replaceable "L92" Lithium Polymer |
| Operating Voltage | 1.8VDC - 3.6VDC |
| Avg. Current Consumption | 16uA (Active), 500uA (Command ACK), <5uA(Sleep) |
| Operating Temperature | -40°C to +60°C (-40°F to +140°F) Defined by Batteries |
| Operating Environment | Indoor/Outdoor, 0-95%+ RH |
| Battery Life (Average) | 6 - 8 Years |
| Communication Protocol | BLE/BT5 2.4Ghz |
| BLE Chipset | nRF52840 |
| TX Strength | Default +8dBm |
| Range | 70m - 90m (250ft - 300ft) Line-of-Sight |
| | 30m - 45m (100ft - 150ft) Non Line-of-Sight |
| Encryption | 128-Bit AES Encryption |
| Button Press | Click to turn on. Press and Hold 2 sec to put in sleep mode |
| LED | Green LED: 2 sec. blinking when turning on |
| | Green LED: 2 sec. solid when entering sleep mode |
| Find My Sensor | Command from Console to blink sensor LED |
| Weight | 56g (2 oz) |
| Dimensions | 77.5mm x 57.5mm x 44mm (2.26in. x 1.73in. x 0.73in.) |
| Enclosure Material | ABS PA-765+ |
| IP Rating | IP66 |
| Probe Dimensions | 1m (3ft.) Length, 28awg (0.32mm) Braided Wires |
| | 8mm x 14mm "Flag Terminal" Capsule |
| | 3.8mm Diameter Hole for Mounting |
| Certifications | FCC ID: X8WBT840F |
| FC H | IC ID: 4100A-BT840F |
| CE VROHS | CE Compliance: 2014/35/EU, 2014/53/EU, 2014/30/EU |

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| Operational Specifications Cont.: | |
|-----------------------------------|---------------------|
| EMC Compliance | FCC Part 15 Class B |
| Flammability Rating | UL94-0V |
| Warranty | 2-years |

| Measurements Specs: | Temperature (C) |
|---------------------|-----------------------------------|
| Measurement Range | -40°C to +125°C (-40°F to +257°F) |
| Accuracy | 0.05°C |
| Precision | 0.01°C |
| Resolution | 12-Bit |
| Inspection Rate | 1 - 30 Minutes, 5-Minute Default |

Swift Sensors Gateway

The Swift Sensors Gateway collects encrypted data from sensors located within the specified communication range (< 90m/300ft) and then transmits the sensor data to the Swift Sensors Cloud through either Ethernet, Wi-Fi, or cellular. The gateway auto-detects all sensors within range and will immediately establish secure communication without any user configuration or setup. Each gateway can support up to 150 Series 3 sensors.

Swift Sensors Console

All sensor data is logged and stored in the Swift Sensors Cloud. The Swift Sensors Console 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 console can be viewed in a web browser on a computer, tablet, or smartphone.

No programming is required to configure the console. An API to the Swift Sensors Platform allows integration with other data sources and 3rd-party data analytics tools.