







# **Wireless Remote Temperature Sensor - 105**

Part Number: SS3-105

#### **Overview**

Swift Sensors Wireless Remote Temperature Sensor includes a 1m (3 ft.) sealed NTC temperature probe and can measure temperatures between -40°C to +125°C (-40°F to +257°F). This sensor is ideal for monitoring temperatures in harsh environments, difficult to reach locations, and in liquids. 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.

The SS3=105 Wireless Remote Monitoring Sensor is available in 3 different configurations depending on the lead length you require. Longer length leads are appropriate for combination walk-in cooler/freezers where the back section can only be reached using a longer probe running through the cooler to the freezer.

Model Number	Lead Length:
SS3-105	1m (3-ft) Lead
SS3-105-10	10m (30-ft) Lead
SS3-105-150	15m (45-ft) Lead

## 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 Gateway instantly identifies the sensor and establishes secure communication. No wires to connect. No software to Install. Sensors are powered with 2 AAA lithium polymer batteries with an average lifespan of 6 - 8 years.

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

## **Applications**

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

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Operational Specifications:	
Power	1.8 - 3.6VDC, 0.045mW 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 – dust-proof and water-resistant to high-pressure jets/sprays
Probe Dimensions	1m (3 ft.) Probe Length
	19mm Capsule Length, 4.9mm Capsule Diameter
	3mm Cable Diameter
Certifications	FCC ID: X8WBT840F
Industry Canada	IC ID: 4100A-BT840F
C € √RoHS	CE Compliance: 2014/35/EU, 2014/53/EU, 2014/30/EU



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) >105°C for 6 hr Max
Accuracy	0.2°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.