

# Beacon T

Device Data sheet

Version 1.0.0



# Beacon - T Datasheet

Beacon-T wireless sensor devices are seamlessly integrated into the Stratosfy Equipment Operations Platform, a user-friendly and automated temperature monitoring solution for businesses like restaurants, convenience stores, and groceries. This device allows temperature data to be easily collected, viewed and managed through the intuitive Stratosfy web dashboard and mobile application, available on iOS and Android.

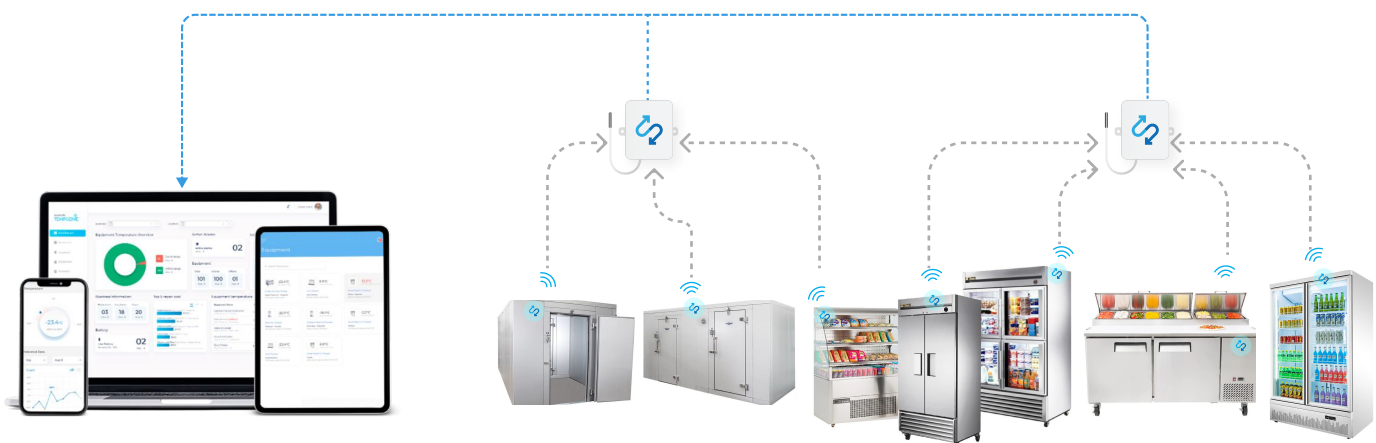
The Beacon-T wireless sensor device measures ambient temperature data and transmits the data via the built-in Bluetooth radio. Its measurement range is  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $257^{\circ}\text{F}$ ), and its communication range is 15 feet.

## Technology Highlights

- Bluetooth 5 ready multi-protocol radio based device.
- High accuracy temperature sensor based device.
- Fully factory calibrated device.
- Supports iBeacon and Stratosfy Telemetry(proprietary) packets concurrently.
- OTA support from Mobile application
- Proprietary technology

BeaconX-T devices are typically meant to be installed in refrigeration equipment, such as drinks coolers, drinks fridges, Sautee fridges, and salad fridges

The BeaconX-T device runs Stratosfy's specially designed firmware. It has a built-in surface temperature sensor with Stratosfy gateway devices to relay temperature measurements to the Stratosfy cloud. Users of the Stratosfy platform can view this measurement data via a web dashboard or mobile application.



# Technical Specifications

Model Number : TEMPGES004

Part Number : STSFYBT004

## RF Specifications

Standard Protocol	Bluetooth 5
Frequency band	2.4GHz
Number of Channels	3 Primary, 37 Secondary
Output power	0dBm (default power upon shipping), Programmable -40dBm to +8dBm
Modulation	GFSK
Antenna / Gain	Chip antenna, 1.1 dBi
Mode of Operation	half-duplex
Data Rates	1 Mbit/s

## Features

BLE Application Supported	iBeaconX, Stratosfy Telemetry
Processor Type	32-bit ARM Cortex-M4F @ 64MHz
Memory	1 MB Flash
Sensors	Surface temperature sensor probe - (Range: -55°C to +125°C, Accuracy: ±0.5 °C: -10 °C to +85 °C; ±1 °C: -30 °C to +100 °C; ±2 °C: -55 °C to +125 °C)

## Physical

Dimensions in mm (Length x Width x Height)	Bluetooth 5
Mounting Method	Wall Mounted with Screw or 3M Double-Sided Adhesive, Hanging method with Zip tie
Housing Material	ABS Plastic for Housing, Rubber for Gasket
Color	White
Weight	54 grams

## Battery

Type	3V / 3500mAh – 2 AA Lithium batteries Lifetime (depending on utilization) 2-3 years expected, dependent upon environmental operating conditions, device configuration, communication frequency operating conditions, device configuration, communication frequency
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## Chemical and Mechanical Resistance

Water	Water Resistant, IP65
Withstands Exposure To	UV Resistant, Impact Resistant

# Technical Specifications

## Thermal

Storage Temperature 32°F to 86°F (0°C to +30°C)

Operating Temperature -4°F to +140°F (-20°C to +60°C)

## Other

Standards FCC / IC

Warranty 1 year

## Accessories



Rated Voltage :  
3V DC (2\*1.5V batteries)

Capacity :  
3500mAh

Type :  
Lithium Batteries

Dimensions :  
50.5 × 14.5 mm

Replaceable battery  
Replacement Energizer Lithium AA  
batteries - 3V / 3500 mAh capacity, 2 AA Energizer Lithium batteries



Velcro tape/3M tape  
3M Velcro hook and loop dual lock tape 1 inch squares



Temperature probe  
Range: -55°C to +125°C, Accuracy: ±0.5 °C: -10 °C to +85 °C; ±1 °C: -30 °C to +100 °C; ±2°C: -55 °C to +125 °C  
Length: 1 m / 39.37 in, 2 m / 78.7 in, 5 m / 196.85 in  
Diameter: 6 mm / 0.24 in