

## Wi-Fi / BLE Temperature Tag for Remote Recording & Alerting

The AiRISTA B4n-TS Temperature Tag provides accurate temperature monitoring and recording. A variety of external temperature probes are available for accuracy needs and temperature ranges.

The B4n-TS Temperature Tag replaces error prone manual recording with continuous automated temperature reports delivered over your wireless network. The badge incorporates a self-illuminating OLED (organic LED) display for current temperature readings and alerts.

AiRISTA's Unified Vision Software (UVS) platform provides an easy-to-use web-based user interface that displays the location of tags and temperature readings. Workflows are user definable to monitor and react to temperature excursions with the appropriate response and escalation.

### Variety of Temperature Probes

Temp Range: -55°C to 125°C (-67°F to +257°F)  
Accuracy: +/- 0.5°C from -10°C to + 85°C  
Contact AiRISTA for complete line of probes

### Track the Monitored Unit's Location

AiRISTA offers an optional feature for temperature tags with location monitoring enabled. This feature allows users to utilize AiRISTA's Unified Vision Solution software to view the tag locations on facility maps.

### USB Charging Cable

The B4n-TS Temperature Tag is AC powered over a USB cable provided by AiRISTA. The internal lithium battery ensures continued temperature monitoring and recording when without external power.



### Benefits

- Choice of detachable temperature probes
- Self-illuminating OLED interface to display temperature, alerts, etc.
- Powered over USB cable
- Tack the location as tags move through facilities (optional)
- Migration strategy from Vision software platform to Unified Vision

### Features

- BLE 4.2 & 5.0 compliant
- Programmable buttons for customized messaging
- Remotely activated audio buzzers
- Visual indicators through multiple LEDs (based on model)
- Over-the-air programming and configuration capabilities
- Cisco CCX compatible and support for layer 2 network protocol
- Support software platforms Vision and Unified Vision (*sofia*)

## Wi-Fi Radio

Supported Wi-Fi Networks: 802.11 b/g/n  
Sleep Mode Maximum Leakage Current: <10ua  
TX 802.11b, CCK 11 Mbps, Pout = +19 dBm  
TX 802.11g, OFDM 54 Mbps, Pout = +17 dBm  
TX 802.11n, MCS7, Pout = +17 dBm  
Rx 802.11b, 1024 bytes packet length, -80 dBm  
Rx 802.11g, 1024 bytes packet length, -70 dBm  
Rx 802.11n, 1024 bytes packet length, -65 dBm  
FCC, Canada, ETSI 2.4 - 2.4835 GHz  
Japan 2.471 -2.497 GHz  
Layer 2 Network Support: CCX, Blink  
Security: WEP, WPA2-PSK  
Supported Data Rates, 1, 6,11,54,72 Mbps

## BLE Radio

Blue-tooth Low Energy (BLE) Radio  
BLE 4.1, 4.2 and 5.0 Compliant  
RX BLE: 6mA  
TX BLE: 6mA  
TX BLE max Out Put Power: 5dBm

## Electrical Interface

DC Power: Rechargeable Lithium Polymer battery  
Capacity: 600mAh  
Rated cycle life: 300 cycles > 70% of initial cap Interface  
Antenna: Omni-directional antenna

## Battery Life

Average 24-36 hours per full charge (duration depends on the tag's configuration) \*

## User Interface

Two call buttons and a menu button  
Two red/green signal LEDs  
Safety switch for use with AiRISTA provided lanyard\*\*  
Customizable Alarms  
Organic LED Display for text messaging and menu  
Customizable Display Menu

## Frequency band

Channels 1-11: North America  
Channels 1-13: Global  
Channels 1-14: Japan

## Environment

Operating Temperature: 32 to 122 °F / 0 to 50 °C  
Storage Temperature: -40 to 140 °F / -40 to 60 °C  
Humidity: 95 % non-condensing, relative humidity  
Protection: dust and splash proof enclosure

## Typical Operating Range

Line of Sight:  
330 ft/100 m @11Mbit/s, 500 ft/150 m @2Mbit/s\*  
Obstructions:  
140 ft/40 m @11Mbit/s, 200 ft/60 m @2Mbit/s

## Physical

Dimensions:  
3.54 x 2.36 x 0.33 in / 90 x 60 x 8.5 mm  
Weight: 1.7 oz. / 48 g

## Certifications

FCC: Part 15 (US and Canada)  
CE Mark (European Union)  
Cisco Support: CCX protocol support

## Part Numbers

Temperature Tag: B4n-TS  
Multi-charger for 10 B4 badges: B4n-10-Multicharger  
USB Charging Cable: B4n-USB  
Charging Adapter: Charge-adapter  
Car Charger: B4n-CarCharger

\*Specifications subject to change without prior notice.

\*\*Use of 3<sup>rd</sup> party lanyard may void warranty (contact AiRISTA for details)

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