Wi-Fi tag for temperature monitoring

AiRISTA Flow's AiR-T4 temperature tag is designed for monitoring and logging the temperature of assets. The AiR-T4 offers multiple sensors which can be utilized for humidity, different asset types, or temperature ranges. Utilizing advanced wireless network and sensor technologies, AiRISTA Flow offers innovative, robust, and cost-effective environmental condition monitoring solutions.

Industry-leading location accuracy

Using a standard 2.4 GHz Wi-Fi 802.11 b/g/n network environment, the Air-T4 tracks and monitors asset conditions. The temperature tags provide continuous readings of the environmental conditions at programmable intervals. The AiR-T4 utilizes an existing Wi-Fi infrastructure to transmit environmental condition data in real-time for storing, processing, and alerting of abnormal conditions by sending notifications/alerts via email, SMS, or pre-recorded voice messages.

Easily replaceable battery

The Air-T4 temperature tag has an easily replaceable lithium battery to ensure that an organization's reports are accurate and that facilities are up to standards.

Track the monitored units' location

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

Features

- Water Resistant
- Long-life, replaceable battery
- Multiple ways to attach tag to assets
- Motion sensor for determining transmission intervals to optimize battery life
- Optional internal and external temperature sensors
- General purpose tactile call button
- Chokepoint detection
- Visual indicators through multiple LEDs (based on model)
- Over the air programming and configuration capabilities
- Over the air firmware upgrade capability
- Cisco CCX compatible

Benefits

- Keep facilities up to standards
- Easily locate assets
- Accurate, time-saving and automated reporting functionality
- Able to withstand different temperatures

Technical Specifications

Radio and technical

Sleep Mode Maximum Leakage Current: < 4 uA
RX Wi-Fi with CCK/DSSS (1, 2, 5, 11 Mbits/s): 35 mA
RX Wi-Fi with OFDM (6,9… 54 Mbits/s): 37mA
TX Wi-Fi at +12 dBm: 125 mA
Max Wi-Fi Output Power: 12 dBm
Operating Current TX & RX Disabled: 18 mA RISC core operating

Electrical interface

Replaceable 1200 mAH, 3.0V Lithium Battery
Configuration: Over-the-air remote configuration

Environment

Tag Operating Temp: -30º C to 85º C
Probe Operating Temp: See chart below

User interface

One call button
Removable tamper detection

Typical operating range

Up to 150 feet (45m)

Physical

Form Factor: ABS plastic enclosure
Weight: < 38 grams without battery
Dimensions: L52 x W32 x H13mm

AiR.T4.TS.W.I	AiRISTA FLow AiR-T4 Wi-Fi temperature tag includes internal temp sensor (Application: room temperature) - Temp Range (-20ºC to 105ºC) - Power (1200mAH replaceable battery)
AiR.T4.TS.W.E	AiRISTA Flow AiR-T4 Wi-Fi temperature tag includes external temperature probe - Temp Range (-50ºC to 105ºC) - Power (1200mAH replaceable battery)
AiR.T4.TS.UL.W.E	AiRISTA Flow AiR-T4 Wi-Fi temperature tag includes external temperature probe ultra low temp. - Temp Range (-100ºC to 105ºC) - Power (1200mAH replaceable battery)
AiR.T4.TS.UH.W.E	AiRISTA Flow AiR-T4 Wi-Fi temperature tag includes external temperature probe ultra high temp. - Temp Range (-50ºC to 150ºC) - Power (1200mAH replaceable battery)
AiR.T4.TS.WP.W.E	AiRISTA AIR-T4 Wi-Fi temperature tag includes external waterproof immersible temperature probe - Temp Range (-50ºC to 105ºC) available lower range -100ºC - Power (1200mAH replaceable battery)

Specifications subject to change without prior notice.