Securitas Healthcare

T15h Tag

DATA SHEET

Provides a Wi-Fi based ambient Temperature and Humidity Monitoring solution for hospital departments

PRODUCT HIGHLIGHTS

- Temperature & Humidity Sensor
- Large Display
- Minimum & Maximum Readings
- Data Logging - Stores a Total of 128,000 Readings
- Programmable Logging Rate
- Logs Physical Inspections (Audits) with a Single Button Press
- Wireless Tag Status Reporting
- Visual and Audible Alarm for Temperature & Humidity Out-of-Range Alerts
- Bi-Directional Communication for Over-the-Air Firmware and Configuration Updates
- Supports 802.1x Enterprise security (PEAP-MSCHAPv2) and WPA2-PSK with AES encryption
- BLE Communication for Tag Configuration
- Off-Line Temperature & Humidity Monitoring During Network Failures
- Flexible Mounting Options
- Battery and External Power Options
- Long Battery Life Using Off-the-Shelf Replaceable Batteries
- Supports 6 Languages

DESCRIPTION

The T15h Tag adds advanced temperature & humidity monitoring capabilities, to Securitas Healthcare's market-leading family of Wi-Fi tags, making it ideal for use in all hospital departments.

AMBIENT TEMPERATURE AND HUMIDITY MONITORING

The tag is equipped with internal sensors that constantly monitor ambient temperature and humidity, of mission critical locations such as operating rooms.

The T15h Tag can be supplied with a NIST traceable Certificate of Calibration compliant to ISO 17025:2017.

The T15h Tag provides local audible and visual alerts, and works with Securitas Healthcare's MobileView and AeroScout Links platforms to provide real-time alerting and reporting for temperature and humidity monitoring solutions.

Key Features

LARGE DISPLAY AND PUSH BUTTON FUNCTIONALITY

The tag's display shows the current temperature and humidity, the minimum and maximum values measured since the last audit, battery and power status, alarm indications, and warnings. The buttons are used to navigate and select the tag's menu options, activate the tag, and perform manual audits with a single-press.

AUDIO AND VISUAL INDICATIONS

T15h Tags include a buzzer, with 4 different distinct sounds, and 3 LEDs for status indications, such as tag activation, alerts, and low battery.

WI-FI & CYBER SECURITY

The tag supports 802.1x Enterprise security networks with a PEAP-MSCHAPv2 protocol. Additionally, they support an HTTPS connection with MobileView Servers using the TLS1.2 protocol. This allows a MobileView Server authentication using pre-installed X.509 certificates.

BLUETOOTH LOW ENERGY (BLE) COMMUNICATION

T15h Tags use BLE technology to communicate with the Deployment Manager (DM) app for device configuration and setup.

BEACONING AND BIDIRECTIONAL (BD) COMMUNICATION

The tags utilize lightweight beaconing communication (for standard messages) and Bidirectional Wi-Fi communication with full network association and authentication. This unique combination provides a flexible and scalable solution for advanced applications. The tags can operate with one network SSID in a secure or non-secure mode and can store up to two application server connections. The T15h Tags also support both static IP configuration and DHCP.

BATTERY AND EXTERNAL POWER OPTIONS

The tags are powered by 2 AA batteries, which is the recommended power source, and an optional power adapter that can be used to save battery life. Battery levels are constantly monitored by the device and MobileView. The tag will use external power whenever available (batteries are recommended as a backup if external power is used).

INTERNAL TEMPERATURE AND HUMIDITY SENSOR

T15h Tags are equipped with on-board temperature and humidity sensors that can accurately monitor ambient temperature and humidity levels. Alerts are triggered if the values are out of a configured range, either on the tag itself or through MobileView (depending on configuration).

PROGRAMMABLE LOGGING INTERVAL

Logging intervals can be programmed to 1, 5 or, 15-minute intervals using pre-configured static configurations.

MANUAL AUDIT WITH A SINGLE BUTTON PRESS

A physical inspection of the tag can be easily logged by pressing the main button on the front of the tag.

STORES UP TO 128,000 RECORDS

The T15h Tag's onboard memory can store a total of 128,000 readings (64,000 temperature readings and 64,000 humidity readings). Additionally, temperature and humidity data is also sent to MobileView (if the tag is configured to sync with MobileView).

OFF-LINE MONITORING

The T15h Tag can store data during times of network connectivity failures. Recorded data is then automatically synchronized with MobileView within 24 hours after normal network connectivity has resumed, or immediately by performing a manual sync from the tag. Off-line data is viewed via MobileView Reports.

MOBILEVIEW ALERTS

Using MobileView, events can be configured to trigger alerts for specific situations, such as when the tag's temperature and/or humidity is out-of-range or the tag fails to report for an extended period. Additionally events can be configured to monitor the status of the tag's battery level.

FLEXIBLE MOUNTING OPTIONS

The tag is supplied with a cradle that can be easily mounted to assets using either double-sided tape or screws.

Product Specifications

Models	SKU: TAG-1500-H T15h Tag SKU: TAG-1500-H-NIST T15h Tag with NIST Certification
Environmental Specifications	**Operating Temperature Range:** 0°C to 50°C (32°F to 122°F) **Tag Storage Temperature Range:** -20°C to 60°C (-4°F to 140°F) **Humidity:** 0% to 95% RH non-condensing **Ingress Protection Rating:** IP-52
Monitoring Temperature & Humidity Ranges	**Temperature Measurement Range:** 0°C to +50°C (32°F to +122°F) **Accuracy:** +/-0.5° C (+/-1° F) **Humidity Measurement Range:** 5% to 95% RH
Tag Memory	64 Mbit Flash memory - Able to store up to 128,000 readings
Physical & Mechanical	**Dimensions LWH:** 114 x 77 x 20.3mm (4.4 x 3 x 0.8inch) **Weight:** 150g (5.3oz) with batteries
Connectors	1 x USB-C connector
Electrical	**Battery:** 2 x AA Alkaline replaceable batteries **External Power (USB-C Interface):** 5V/0.5A Adapter (Optional) *Note: The power supply is proprietary and must be purchased from Securitas Healthcare.*
Display	E-ink
Audio & Visual Indications	**Audio:** Buzzer - 85dBA@10cm **LEDs:** 3 dual-color LEDs
Radio	**Transmission power:** up to +19dBm (~81mW) Patented clear channel sensing avoids interference with wireless networks
Communication	**BLE (Bluetooth Low Energy):** BLE 5.0 [2.402 GHz — 2.480 GHz (2.4GHz bands)] **Wi-Fi:** 802.11 radio (2.4 GHz); b/g/n compliant
Range	**Outdoor range:** Up to 200m (650 feet) **Indoor range:** Up to 80m (260 feet)
Wi-Fi Security Mode	Open, non-encrypted, WPA2-PSK(AES), 802.1x Enterprise security (PEAP-MSCHAPv2)
Logging Rates	1 minute, 5 minutes, 15 minutes
Certifications	**Radio, EMC:** FCC Part 15 Subpart C, Subpart B, RSS-247, EN 300-328, EN 301-489, Radio Equipment Directive 2014/53/EU (RED), Radio Equipment Directive S.I.2017/1206 (RED), RoHS 2 Directive 2011/65/EU, RoHS 2 Directive S.I.2012/3032 **Safety:** CE, UKCA, EN62368/UL62368/IEC62368, Japan 201-200712

Also available for:

AeroScout® LINKS

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