![STANLEY Healthcare]

T5 Sensor Tags

Wi-Fi tags that leverage an IoT platform for monitoring the environment of care in labs, pharmacies and outpatient services.

AeroScout® LINKS

Product Highlights

- Wirelessly monitors, records and analyzes condition and status information
- Offers a variety of sensors, including both on-board and external sensors
- Mobile application for viewing sensor data, alerts and reports
- Supports offline condition monitoring

Description

T5 Sensor Tags, which are components of STANLEY Healthcare's AeroScout LINKS® IoT (Internet of things) solution, add advanced condition monitoring capabilities to our market-leading family of Wi-Fi Tags.

The tags allow users to accurately monitor environmental conditions, including ambient temperature and humidity levels. The data from the Sensor Tags are transmitted wirelessly, and received by nearby receivers called 'Gateways', which relay the information to the AeroScout LINKS platform.

The T5 Sensor Tags enable users to improve their operations, quality, and regulatory compliance. Various types of industries, including healthcare, laboratory, food service, manufacturing, and logistics related organizations have a critical need for wireless monitoring of environmental conditions.

By combining the tags with the AeroScout LINKS application , email alerts and push notifications can be set to trigger when changes in environmental conditions are detected. The Battery-powered T5 Sensor Tags, with on-board memory, are also able to monitor and store condition data when the tags are out of network range, or during a power outage.

Industry Benefits

The T5 Sensor Tags provide mission-critical benefits in various industries, including:

Healthcare

T5 Sensor Tags are easily deployed in hospital rooms, refrigerators and freezers that store vaccines, pharmaceuticals, blood, food, and other items. The tags can be mounted either inside storage units or attached outside. Additionally a probe can be used to monitor internal conditions.

In other cases, the tags can be used to monitor the ambient temperature and humidity levels in rooms.

T5 Sensor Tags provide an automated and reliable solution that improves regulatory compliance and saves time so that staff may focus more on patient care and safety.

Manufacturing

Ensuring correct environmental levels can be essential for many manufacturing processes.

For example, in Aerospace manufacturing, some epoxies and composite material components must be stored or applied in specific temperature or humidity ranges. T5 Sensor Tags can be placed in refrigerated storage rooms and other key locations to automatically monitor temperatures and send alerts when needed. In Consumer Packaged Goods manufacturing, tags can be used on pallets and in cooling tunnels where temperature conditions must be maintained.

Logistics and Cold Chain

Maintaining proper environmental conditions during the storage and transportation of perishable inventory (such as food or pharmaceutical products) is critical for the proper delivery of those goods. T5 Sensor Tags provide cost-effective wireless monitoring for warehouses, and even trucks on the road, to measure against thresholds and deliver automated email alerts, push notifications and reports.

Data Centers

For areas with a large amount of computing hardware such as data centers and server rooms, T5 Sensor Tags can remotely monitor temperatures and alert in the event of an air conditioning failure or general overheating. Monitoring humidity levels can alert to potential for static buildup or mildew. Immediate alerts follow client business rules and can be sent to multiple users. Timely monitoring can prevent work disruptions and protect against equipment damage.
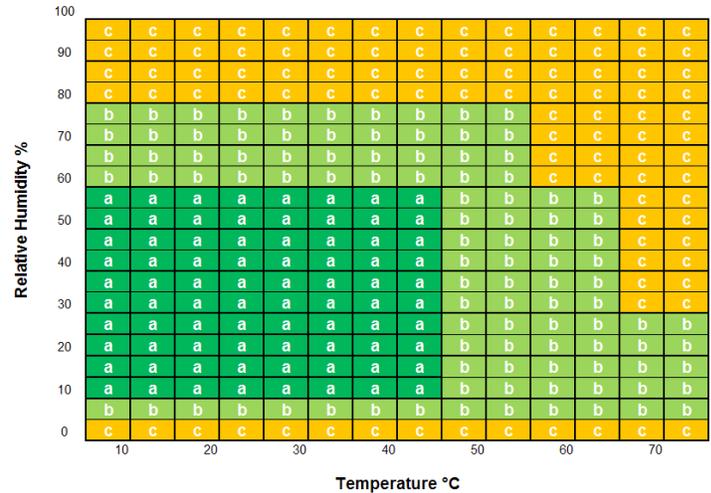
T5 Sensor Tag Family Specifications

	T5a Tag	T5h Tag
PERFORMANCE		
Indoor range	Within15m (45feet) from a Links Gateway	
SPECIFICATIONS		
Wi-Fi Radio	802.11 compliant (2.4 GHz)	
Transmission power	+19dBm (~81mW)	
Dimensions	62mm x 40mm x 17mm	62mm x 40mm x 17mm
	(2.4in x 1.6in x 0.7in)	(2.4in x 1.6in x 0.7in)
Weight	35gm (1.2oz)	37gm (1.3oz)
Battery	1/2 AA 3.6V *(Battery life estimate according to set configuration: 3 years)*	1/2 AA 3.6V *(Battery life estimate according to set configuration: 3 years)*
IP Rating	65	54
SENSOR RANGE	On-board temperature sensor: Range -30°C to +75°C (-22°F to +167°F)	On-board temperature sensor: Range -30°C to +75°C (-22°F to +167°F)
		Humidity Sensor Range: See Figure 1
TRANSMISSION INTERVAL	Transmission interval is configured to 5 minutes (*not configurable*)	
ACCESSORIES	Mounting Cradle	Mounting Cradle
	Potting Kit	
CERTIFICATIONS	Optional calibration certification with NIST traceability	
Radio	FCC Part 15, sub-part C class B, sub-part B, EN 300-328, EN 300-330, EN 301-489	
Safety	CE and cTUVus (EN60950)	
SKU	TAG-5555i	TAG-5255i

Humidity Sensor Operating Range

The Humidity Sensors, in the T5h Tag, deliver their optimum performance within the recommended normal range, as shown in Figure 1. Long-term exposure to conditions outside the normal range, especially at humidity levels above 80% RH, may temporarily offset the accuracy of the reported Relative Humidity level. After returning the Tag to the normal range, the reported Relative Humidity gradually returns to a more accurate reading. Prolonged exposure to extreme conditions may accelerate aging of the sensor.

a	Most accurate
b	Long-term exposure may degrade accuracy
c	Accuracy degraded up to 3%

T5a Tag Temperature Stabilizing Container (SKU: TAC-500)

About STANLEY Healthcare

Over 15,000 hospitals and senior living communities rely on STANLEY Healthcare solutions to empower caregivers to deliver better care. STANLEY Healthcare is a part of Stanley Black & Decker and a proud supporter of the Alzheimer's Association®. Learn more at **www.stanleyhealthcare.com**.