

Data Sheet:

T7a Autoclave Tag

Withstands rigorous sterilization processes, including autoclave, ultrasonic bath, ETO, H2O2 and high pressure water spray

Product Description

The T7a Tag is designed for tracking assets that go through harsh sterilization cycles. The tag meets all requirements for high temperature and pressure resistance encountered during cleaning and sterilization processes. The tag is able to withstand more than 350 sterilization cycles and delivers a battery life of up to two years.

The T7a Tag data is received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple. As with all STANLEY Healthcare tags, location is determined through a unique beaconing method, that keeps network impact low, and ensures scalability and long battery life.

An example of an asset that can be tagged with a T7a Tag is critical Operating Room instruments such as the surgical instrument tray. The tray is tracked as it moves through different stages of preparation for surgical procedures. Surgical instrument trays require a rigorous sterilization process after every surgical use, which includes, ultrasonic cleaning, ETO sterilization, high pressure liquid sterilization, and steam autoclave. The T7a Tag enables hospital staff to quickly locate the trays. Asset status can be determined during the sterilization and preoperative processes; therefore significantly reducing time

spent searching for instruments required for procedures. Real-time visibility of critical equipment ensures that the sterile trays are readily available, thus increasing staff satisfaction, improving OR preparation time and throughput. In addition, the tags can be used to provide automated inventory of trays in various locations, enabling better planning and scheduling of central processing activities.

Key Features

Wi-Fi Compatibility

The T7a Tags use standard Wi-Fi networks, keeping infrastructure costs low and making deployments fast and simple. The tags utilize a unique beaconing method that keeps the network impact low, supports scalability, and increases battery life.

Long Battery Life

The Tag has a single battery that provides up to two years battery life. The T7a Tag is able to provide a report of its battery level and has a motion sensor to conserve battery life when the tag is not in motion.

Chokepoint Detection

When combined with STANLEY Healthcare Exciters, the T7a Tag provides instant notification when a tagged asset passes through a chokepoint, such as a gate, doorway or other tightly defined area. For example, a tagged surgical instrument tray can be accurately and



Product Highlights

- Withstands rigorous sterilization cycles
- Leverages standard Wi-Fi infrastructure for low total cost of ownership and ease of deployment
- Beaconing communication method allows long battery life and highly scalable deployments with minimal network impact
- Supports chokepoint detection functionality

immediately identified as it completes various sterilization process steps, leaves a certain area or enters a surgery room.

Rugged Performance

The T7a Tags are designed to operate in harsh sterilization conditions. The tag enclosure is fully water-proof (IP68 rated) and it can remain immersed in liquids for up to one hour. The tag can withstand more than 350 sterilization cycles (at a peak of 135°C and 35 PSI) and can handle significant physical shocks.

Tag Management

The tags are easily configured by using a Tag Activator together with the AeroScout Tag Manager Software, which is part of the Hardware Manager suite.

Product Specifications	
Part Number	SKU:TAG-7000
Performance	Outdoor range: up to 200m (650 feet) Indoor range: up to 80m (260 feet)
Physical and Mechanical	Dimensions: 50mm x 25.4mm (1.97" x 1") Weight: 46 gr (1.62oz)
Radio	802.11 radio (2.4GHz); b/g compatible Low frequency receiver (125kHz) Transmission power: up to +19dBm, ~81mW Clear channel sensing avoids interference with wireless networks
Programmability	Transmission interval is configurable from 1 sec up to 3.5 hours Channel programmable Wireless Tag programming
Environmental	Temperature: -30°C to 135°C (-22°F to 275°F) Humidity: 0 to 100%, condensing Pressure: up to 35 PSI for 60 minutes Water-Proofing: IP-68 The housing is water and vibration resistant
Sterilization Cycles	Complies with the recommendations of ANSI/AAMI ST79:2010/A2:2011 Withstands more than 350 sterilization cycles Sonic Washer and Disinfector resistant
Electrical	High temperature 3.6V Lithium ½ AA battery Battery life: up to 2 years
Certifications	Radio: FCC Part 15, sub-part C class B, sub-part B EN 300-328, EN 300-330, EN 301-489 RSS 210 (Canada) Safety: CE and cTUVus (EN60950)



Disinfector



Autoclave



Sonic Washer