STANLEY Healthcare

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Data Sheet:

Hugs® Wi-Fi Tag

Wi-Fi transmitter tag responds to tamper detection through the SoftTouch band, and through a skin-sensing feature that uses a proximity sensor.

Product Description

At the heart of the Hugs Infant Protection System is the Hugs Wi-Fi Tag. The Hugs Wi-Fi Tag is a very small form factor, Wi-Fi transmitter that responds to tamper detection through the SoftTouch band, and a skin-sensing (BabySense) feature using a proximity sensor.

The tag uses any standard Wi-Fi network infrastructure, keeping costs low and making deployments simple and fast. Leveraging the Wi-Fi network, tagged infants are accurately located in real-time and in any environment – from closed indoor locations such as hospital floors, to open outdoor spaces such as parking lots. The Wi-Fi communication utilizes a unique beaconing method (without associating with networks) that keeps network impact low and ensures scalability as well as long battery life.

As soon as the tag is applied to the infant using the SoftTouch tamper-proof disposable band, the tag turns on, producing an audible beep. From the moment it is activated, the tag begins to send "supervision" messages indicating that it is OK and protected. The infant is automatically enrolled in the Hugs Application and is constantly monitored against abduction. The disposable band may be adjusted to allow for normal weight loss, is non-allergenic, and does not contain latex. Tags are reusable and come with a warranted life of two years.

The BabySense skin-sensing feature notifies you if the Hugs Wi-Fi Tag is not properly applied to the infant, either because the tag was applied too loosely or due to weight loss. The BabySense feature helps ensure that the tag is always securely applied and protecting the infant by sending timely reminders to a staff member.

The unique patented asymmetric shape of the tag helps to ensure that it does not pinch or irritate the baby's skin, and also helps prevent it from being kicked off, while still allowing the ankle joint to move freely. The tag is water-resistant to allow bathing of the infant, and complies with standards to avoid interference. It is also resistant to soiling and UV light, and may be cleaned with a hospital-approved disinfectant solution.

The Hugs Wi-Fi Tag is also used with the optional Kisses® Tag for Wi-fi mother/infant matching component of the Hugs system. The Kisses Tag identifies a mismatch if the incorrect infant is brought to a mother. The Hugs Tag then emits an audible beep and also sends an alert to the system. A specific Hugs Tag can bond with only one Kisses Tag while the same Kisses Tag can bond with multiple Hugs Tags (supporting multiple births).

The Hugs Wi-Fi Tag contains a non-replaceable, rechargeable battery that needs to be recharged after every use, using a proprietary charger. The charger accommodates up to 24 tags simultaneously. Note that placing the tag in the charger erases all the tag data, including the Kisses bonding and the mother and infant admitting information. Once charged, the Hugs Wi-Fi Tag battery will last for approximately two weeks.

Product Highlights

The system may be configured to generate alerts under these and other situations:

- Someone tries to exit through a protected doorway with a monitored infant without authorization.
- An infant is located in an unauthorized area ("Out of Unit").
- The tag's signal has not been detected by the system for a specified time period.
- The band has been cut or tampered with.
- The tag's battery power is low.
- An authorized exit has occurred but someone tries to "piggyback" through the protected exit with another infant.
- The infant has been brought to the wrong mother (Kisses only).

Battery Life and Charging Time

- Charging Time - Up to **3 hours** is the maximum charging time for a tag from a low battery state.
- Battery Life - Once charged, the Hugs Tag typically lasts **10 days** under normal use. It is, however, recommended to place the Hugs Tag in the Charger between uses (ensure the tag is cleaned first!).

NOTE: It is important to charge the tag at least once every 10 days.

Cleaning the Tag

Note: *The tag is not sterilized at the factory and should be cleaned before first use.*
Consult with your Infection Control representative for cleaners available to your hospital that have been approved for use on plastics as stated in STANLEY Healthcare Technical Bulletin [KB# 8184] "*Approved Cleaning Materials for Patient Security Tags*" – available on the STANLEY Healthcare Support Community (stanleyhealthcare.com/support).

Please also be aware of the following additional general guidelines:

- Do not use an autoclave to clean the tag or serious damage may result
- Do not use a disinfectant with more than 20% alcohol
- Do not soak the tag
- If required, a disposable soft-bristle brush may be used to remove surface dirt from the tag's surface or the contacts on the tag
- Rinse and thoroughly dry all tags after cleaning

Product Specifications	
Model	Hugs Wi-Fi Tag
Part Number	TAG-HGS-1000 Based on Wi-Fi protocol: • TAG-HGS-1000-I (IBSS mode) • TAG-HGS-1000-C (CCX mode - Cisco) • TAG-HGS-1000-W (WDS mode)
Tag Life Time	2 years
Battery	Contains a Lithium 4.2 V non-replaceable battery. Recharge after each use.
Wi-Fi Data Rate	1 Mbps
Wi-Fi Transmission Interval	10 seconds
Temperature	32°F to 120°F (0°C to 49°C)
Humidity	0-95% RH @ 70°F (21°C), non-condensing
Solid Objects and Liquids	Water and dust resistant - Ingress Protection (IP) 67
Dimensions	Approximately 1.2 x 0.52 x 1.4 in. (29 x 13 x 34 mm)
Weight	Approximately 0.35 oz. (10 g)
Radio	• 802.11b compliant (2.4 GHz) • Low frequency receiver for chokepoint detection (125 kHz) • Transmission power: up to +19 dBm (~81mW) • Patented clear channel assessment avoids interference with wireless networks
Medical Device Classification	 This product is certified for Type BF Applied Parts
Certification	Radio: FCC Part 15, sub-part C class B, sub-part B (US), EN 300-328, EN 300-330, EN 60601 / IEC 6100 (Visit website for updated certification and regional specific information) Safety: CE, cTUVus (EN 60950)

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