

STG-832 InfantTAG

User Manual



WARNINGS

For customer in the U.S.A and Canada

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

For customer in Europe

- This equipment has been tested and found to comply with the limits set out in the R&TTE Directive.



- Where you see this symbol on any of our electrical products/packaging in Europe, it means that at end of life the product/battery must be disposed of in accordance with any applicable laws or requirements for the separate disposal of electrical equipment/batteries.

- The manufacturer of this product is CADI Scientific Pte Ltd, 31 Ubi Road 1, #03-00 Aztech Building, Singapore 408694.

Cadi Scientific Pte Ltd
31, UBI ROAD 1
#03-00
AZTECH BUILDING
Singapore 408694
<http://www.cadi.com.sg>

PRECAUTIONS

- Keep batteries away from children.
- Do not swallow batteries.
- Do not throw batteries into water.
- Do not throw batteries into fire.
- Do not short-circuit batteries.
- Do not recharge batteries.

Description

The STG-832 InfantTAG is a battery replacement tag that can be worn on an infant to track its location. When used in conjunction with the STG-852 Patient/Mother-Tag, the InfantTAG can be matched to a Mother-Tag. When matched to an InfantTAG, the Mother-Tag can provide indication of an incorrect match when a wrong Infant is brought near the mother.

The STG-832 will periodically transmit RF signal or LF signal (optional). The RF and LF data packets consist of its unique tag ID and status. It is designed to work with other devices in the SmartSense system.

Accessories

- Proprietary Infant Tag Wrist Strap.
- CR 2050 coin cell battery.

Product Specification

The STG-832 Infant Tag has the following requirements:

General Specification

Operating Ambient Temperature Range	<ul style="list-style-type: none">• 20.0 deg C to 50.0 deg C
Storage Ambient Temperature Range	<ul style="list-style-type: none">• 20.0 deg C to 50.0 degC
Device ID	<ul style="list-style-type: none">• 16 Bits
Power Source	<ul style="list-style-type: none">• 3V Coin-cell CR2050
Dimension :	<ul style="list-style-type: none">• (39.5) x (36.5) x (15.0) mm

User Interface

Buttons	<ul style="list-style-type: none">• None
Visual Indicators	<ul style="list-style-type: none">• 1x Green LED Operating Indicator

Power

Input Power	<ul style="list-style-type: none">• 3V d.c Coin-cell CR2050• replaceable Battery• Up to 3 months of battery life
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Wireless Communication Interface (Radio Interface)

Transmission Range	<ul style="list-style-type: none">• Up to 10m (Unblocked)
Transmission Frequency	<ul style="list-style-type: none">• Once every 140 seconds
Operating Frequency	<ul style="list-style-type: none">• 868.4MHz, 919.8MHz and 925MHz ISM Range,
Modulation	<ul style="list-style-type: none">• GFSK
Antenna Type	<ul style="list-style-type: none">• pcb antenna
RF input impedance	<ul style="list-style-type: none">• 50 ohm

Wireless Communication Interface (LF Interface)

Transmission Range	<ul style="list-style-type: none">• about 30 ~ 40 (cm)
Transmission Frequency	<ul style="list-style-type: none">• Once every 5 seconds

Operating Frequency

- 125kHz

Communication

SmartSENSE Compatibility

- UHF: 868.4MHz, 919.8MHz, 925MHz
- Compatible with SMN-800 (RF) and SMN-890 (RF & relay control)
- Compatible with [SMN-826](#)
- Compatible with [Mother-Tag STG-852](#)

Short-Range Communication with Mother-Tag

- LF : 125KHz
- Pairing Distance: ~ 10cm
- Matching Distance: 30 ~ 40 cm

Features

Tamper-Resistance

- Provided by proprietary conductive strap (disposable, non-reusable)

Configuration

- No Configuration Required

Message

Low Battery Indicator

- Transmit in UHF packet back to server

Periodic Message Transmission

- Every 140 sec via UHF
- Data to include Infant-Tag ID if available

Battery Replacement

1)



Prepare a CR2050 coin cell battery and a battery cover as shown above

2)



Place the coin-cell battery with positive terminal (+) face outwards.

3)



Adjust the battery cover as shown above (*triangle pointing at about 1'o clock*) so that >90% of the thickness of the cover is inserted into the casing (body).

4)



Press a little bit and turning clockwise for tightening. (*Approximately 10 degree, there is a stopper so won't overturn*).

5)



After tighten up the cover, it should be flush with the casing (body).
