

# Safety and Regulatory Information – Ear tag

## SenseTag V4.0

### Safety and Regulatory Information

Read all of the instructions listed here and/or in the user manual before you operate this device. Give particular attention to all safety precautions. Retain the instructions for future reference.

This device must be installed and used in strict accordance with the manufacturer's instructions, as described in the user documentation that is included with the device.

Comply with all warning and caution statements in the instructions. Observe all warning and caution symbols that are affixed to this device.

Installation and use of this device must be in accordance with and in subject to national and local Law and Regulations (including without limitation those applicable to radio frequencies and wiring codes).

Do not overload outlets or extension cords, as this can lead to risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.

Do not open the device. Do not perform any servicing other than that contained in the installation and troubleshooting instructions and in strict compliance with such instructions. Refer all servicing to qualified service personnel.

# FCC Statements

## FCC ID: 2AUHWET400

### FCC Interference Statement

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 environment. 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. Potential harmful interference to radio or television reception can be determined by turning the device off and on. If this equipment does cause such interference, the user is encouraged to make attempts to correct the interference by taking one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the device and receiver
- Consult the dealer or an experienced radio/TV technician for help

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC CAUTION:** Any changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

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### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with the FCC RF exposure compliance requirements, the separation distance between the antenna and a person's body (including hands, wrists, feet and ankles) must be at least 20 cm (8 inches).

This transmitter must not be co-located, or operating in conjunction with, any other antenna or transmitter. The availability of specific channels and/or operational frequency bands are country-dependent, and are firmware programmed at the factory to match the intended destinations. The firmware setting is not accessible by the end user.

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### Restrictions on the Use of Wireless Devices

In some situations or environments, the use of wireless devices may be restricted by the proprietor of the building or responsible representatives of the organization. For example, using wireless equipment in any environment where the risk of interference with other devices or services is perceived or identified as harmful.

If you are uncertain as to the applicable policy for the use of wireless equipment in a specific organization or environment, you are encouraged to ask for authorization to use the device prior to turning on the equipment.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this product, or the substitution or attachment of connecting cables and equipment, other than that specified by the manufacturer. Correction of the interference caused by such unauthorized modification, substitution, or attachment is the responsibility of the user.

The manufacturer and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from failing to comply with these guidelines.

# Industry Canada (IC) Statement

IC: 4246B-ET400

HVIN: 400-476-004

## IC Interference Statement

This device complies with Industry Canada license-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

## Operating Specifications

Frequency	902 - 928 MHz in North America, 915 - 928MHz in Australia
Dimensions	3.6" x 1.5" x 0.8" -- 91 mm x 38 mm x 20 mm (not including strap)
Weight	Approx. 1.5oz (43 grams)
Expected Battery Life	> 12 months
Operating Temperature	-40°C to +85°C
Relative Humidity	20% to 90% non-condensing

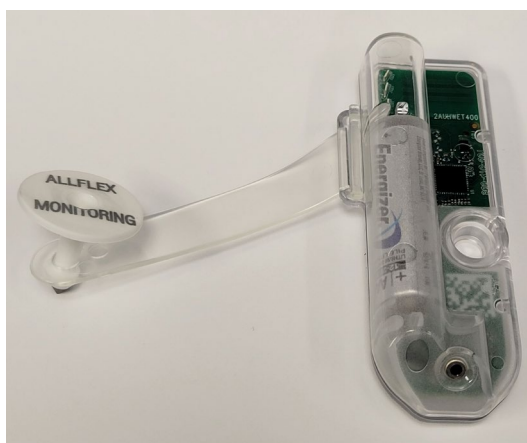


Figure 1: SenseTag Full Assembly

Note: The strap is inserted into the plastic during the manufacturing process. Figure 1 SenseTag Full Assembly is how the device is shipped to the field.



Figure 2: PCB Assembly Bottom Side

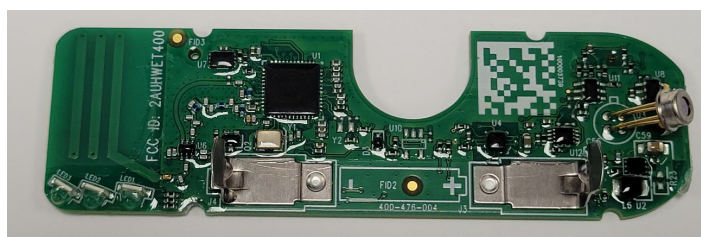


Figure 3: PCB Assembly Top Side

## Activation

The SenseTag will come from the factory (post-production) in Search Mode.

Search Mode is a method where the SenseTag will send a packet every 4 hours looking to connect with a Gateway.

The tags will be activated via a command from the SenseHub Gateway. Once a SenseTag has received an activation packet from a SenseHub Gateway the unit will begin normal operation in Active Mode.

Note, there is not a manual method to activate the SenseTag.

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## Tagging

1. The SenseTag uses a standard ear tag pin and a modified hand tool used to apply the pin to the tag.
2. The SenseTag is attached to the LEFT ear of the cow, with the strap wrapping from inside the ear out/up to the top of the ear.



Figure 4: Hand Tagger and Standard Pin



Figure 5: SenseTag loaded in Hand Tool