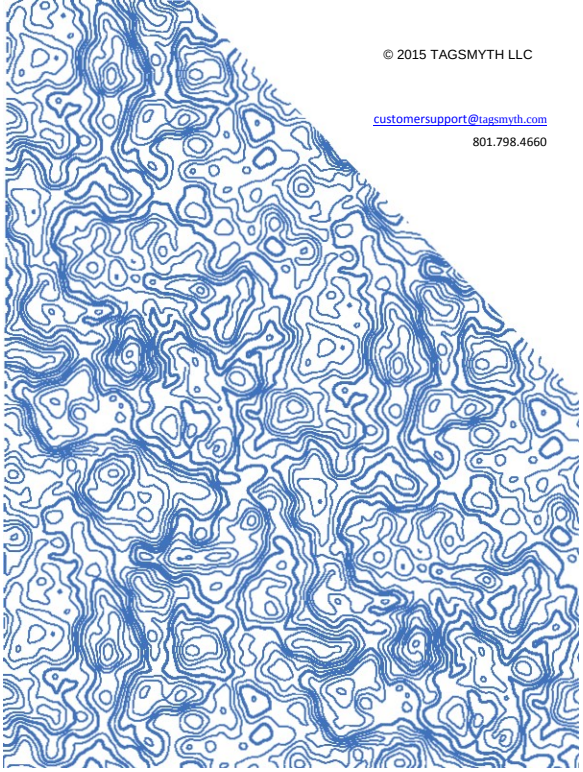
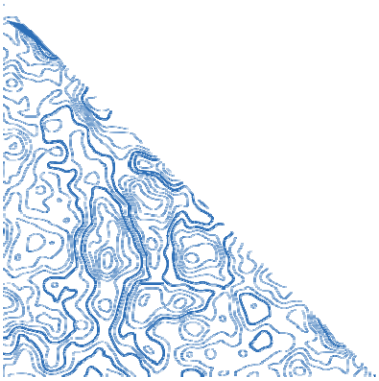




customersupport@tagsmyth.com
801.798.4660

TAGSMYTH™

# RANGE TAG USER MANUAL



# RFID EAR TAG USER MANUAL

The RangeTAG is a long range radio frequency (RF) asset tracking tag from TAGSMYTH that provides real-time long-range location tracking in a small and very light-weight package.

RangeTAG provides 24/7 real-time location tracking, which means losing assets can be a thing of the past. With the ability to easily see location history at a glance, RangeTAG helps you identify abnormal behavior, mitigate disease and injury, and help prevent loss and theft. With a power efficient design and built-in solar charging, you never have to worry about replacing batteries.

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| RF OPERATION FREQUENCY | 915 MHz |
| RF OPERATION RANGE | up to 10 miles |
| PROXIMITY DETECTION FREQUENCY | 150 KHz |
| PROXIMITY DETECTION RANGE | Up to 15 feet |
| BATTERY TYPE | Lithium-Polymer (LiPo) |
| BATTERY LIFETIME | up to 5 years |
| BATTERY LIFETIME WITHOUT SOLAR* | 3 to 6 months |
| OPERATING TEMPERATURE | 0° F to 150° F |
| SPLASH RESISTANT | Yes |

### Warranty Information

The RangeTAG is warranted for one year from the date of shipment against defects in materials and workmanship when used as directed. Tag retention is similar to standard large banner tag. Tag retention is not warranted unless defects in workmanship are discovered. Offspec use of the tag may void warranty. Visit www.tagsmyth.com for more details.

## FCC | 47 CFR 15.505

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. Any changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

*NOTE: 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.*

### FCC Radiation Exposure Statement

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

INDUSTRY CANADA | ICES-003

This Class B digital apparatus complies with Canadian ICES-003.

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.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

*Important Note:*
*Radiation Exposure Statement:*

*This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.*

*2.5.2 EXEMPTION FROM ROUTINE EVALUATION LIMITS – RF EXPOSURE EVALUATION*
*RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:*

*At or above 300 MHz and below 300 Mhz and the source-based time - averaged maximum EIRP of the device is equal to or less than 1.31 x 10 $^{-2}$ f $^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz*

*EIRP calculation:*
*EIRP = conducted output power + antenna gain (dBi) = 16.17*
*EIRP = 0.0415 (W)*

*The calculated EIRP level is less than the 1.38W EIRP limit for the operational frequency 914.76 MHz.*

*Therefore the device is exempt from routine evaluation limits*

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

IMPORTANT! Tous les changements ou modifications pas expressément approuvés par la partie responsable de la conformité ont pu vider l'autorité de l'utilisateur pour actioner cet équipment.

*Note Importante: (Pour l'utilisation de dispositifs mobiles)*
*Declaration d'exposition aux radiations:*

*Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.*

*2.5.2 EXEMPTION DES LIMITES D'ÉVALUATION DE ROUTINE – ÉVALUATION D'EXPOSITION DESRF*
*L'évaluation de l'exposition aux RF est requise si la distance de séparation entre l'utilisateur et l'élément radiant de l'appareil est supérieur à 20 cm, excepté lorsque l'appareil fonctionne comme suit:*

*À ou au-delà de 300 MHz et sous 300 MHz et la puissance de sortie - la PIRE moyenne maximum de l'appareil est égale ou inférieure à 1,31 x $10^{-2}$ $f^{0.6834}$ W (ajustée pour une tolérance d'ajustement), où f est en MHz*

*Calcul de la PIRE :*
*PIRE = puissance de sortie par conduction + gain de l'antenne (dBi) = 16,17 (dBm)*
*PIRE=0,0415(W)*

*Le niveau de la PIRE calculé est inférieur à la limite PIRE de 1,38 W pour la fréquence opérationnelle de 914,76 MHz.*

*L'appareil est donc exempt des limites d'évaluation de routine.*