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User Manual-RF Beacon

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1. Introduction

This document is intended to be the source reference material for using the RF Beacon product, with the exception of electronic configuration (including set-up and interaction with the Smart Tag and on-line monitoring portal). The emphasis here is upon describing the physical features, power source, and correct installation or removal etc.

2. Equipment Description



The RF Beacon is a plug based device that is inserted into a fixed mains socket, to provide a location reference for the Smart Tag equipment. The device is available in different pin configurations to allow for direct connection to mains supply in the country of use, without the need for an adaptor.

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3. RF Beacon Installation

The RF Beacon should be plugged into a fixed power socket in the home of the wearer. A red light on the end of the device will indicate that the unit is powered and working.

The device will not require any servicing, control, adjustment or maintenance during the period of installation. Once installed it should remain in place for the duration of the wearer's time with the Smart Tag.

The RF Beacon should not be installed this equipment in a place where it will be exposed to high temperatures, such as near an open flame or heat-emitting equipment.


To avoid interference to nearby appliances, do not place the Dock or Communications Clip on or near a TV, microwave oven, or VCR. If this RF Beacon does cause harmful interference to radio or television reception, increase the separation between the RF Beacon and receiver.

4. RF Beacon Operation

The Smart Tag makes a wireless connection to an RF Beacon when it is detected in proximity to the Smart Tag. Each RF Beacon has its own unique ID, and the location of the subject residence is associated to that unique RF Beacon, as the RF Beacon is not a GPS receiver in its own right. In this way the monitoring authority can be assured that the subject is at the home location at all times the Smart Tag is in range of the RF Beacon.

When the subject is at home the Smart Tag would continue to seek GPS locations at the intervals set by the monitoring authority, the use of the RF Beacon is intended to reduce the need for repeated GPS fixes while the subject is known to be at home, resulting in significantly less demand on battery power.

The RF Beacon does not have a battery back-up, therefore in cases of power interruption or deliberate disconnection location fixes by GPS will continue from the Smart Tag when it cannot see the RF Beacon.

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5. RF Beacon Collection / Inspection / Cleaning

5.1. Collection

When collecting an RF Beacon from a subject protective gloves should be worn.

- Note any obvious sign of damage.
- Return the RF Beacon to the vehicle for inspection and cleaning.

5.2. Inspection

The RF Beacon should be inspected for signs of damage, units with damage should be dealt with in accordance with local protocols. Damage includes any significant surface marking which may be indicative of the unit being exposed to high impacts or tampering. Special care should be taken to inspect the following areas;

- Any seams between plastics, check for loose fits or evidence of attack by screwdriver or similar.
- Pins for insertion into the mains electrical socket are undamaged.

5.3. Cleaning

If there is any heavy soiling or biological matter on the unit that is unlikely to be easily removed by a sanitising wipe, then the unit should be cleaned thoroughly in line with local protocol. It should be noted that the RF Beacon is only a splash proof product and therefore it is important not to fully immerse the unit in any liquid.

To sanitise an RF Beacon in the field the following process should be followed;

- Wear gloves.
- Rub the unit vigorously with an approved sanitising wipe, ensuring all surfaces receive a good covering of alcohol.
- Allow to dry in a well-ventilated area.

The unit can then be returned to stock for re-use.

6. FCC warning statement

- 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.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment