

User Manual-Smart Beacon	Version:	1.23	
	Date:	07-04-14	
	Page:	1 of 7	

User Manual-Smart Beacon

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User Manual-Smart Beacon	Version:	1.23	
	Date:	07-04-14	
	Page:	2 of 7	

DOCUMENT HISTORY

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1.0	07-04-14	R.Watson	Initial Issue
1.1	17-04-14	R.Watson	Corrections and edits by S.Campfield
1.2	03-06-14	R.Watson	FCC Warning Statement Added
1.3	23-07-14	R.Watson	FCC Warning Statement Modified

REFERENCED DOCUMENTS

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User Manual-Smart Beacon	Version:	1.23	
	Date:	07-04-14	
	Page:	3 of 7	

CONTENTS

1. Introduction	4
2. Equipment Description	4
3. Smart Beacon Installation	4
4. Smart Beacon Operation.....	5
5. Sanitization and Re-Use	6
5.1. Smart Beacon	6
5.1.1. Collection	6
5.1.2. Inspection.....	6
5.1.3. Cleaning.....	6
6. FCC warning statement.....	7

1. Introduction

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

2. Equipment Description



The Smart Beacon is a multi-function RF Beacon to be used in conjunction with the Smart Tag device as an optional accessory. In addition to providing an intelligent link to the Smart Tag, the unit also provides a method of direct communication with the subject via text messages to the display, or two-way voice communication which can be initiated in either direction. The call function can be configured to allow the subject to call one or more pre-defined numbers, such as the monitoring centre, or an SOS number such as '999'.

3. Smart Beacon Installation

The Smart Beacon is designed to sit discreetly in any domestic setting, with no permanent fixing necessary it should sit securely on any table, work surface or floor.

The Smart Beacon will require permanent connection to a mains power supply, however battery back-up is provided in the event of mains power failure. When the unit is plugged into a mains power supply the red LED on the front face will change to green, indicating that mains power is connected.

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.

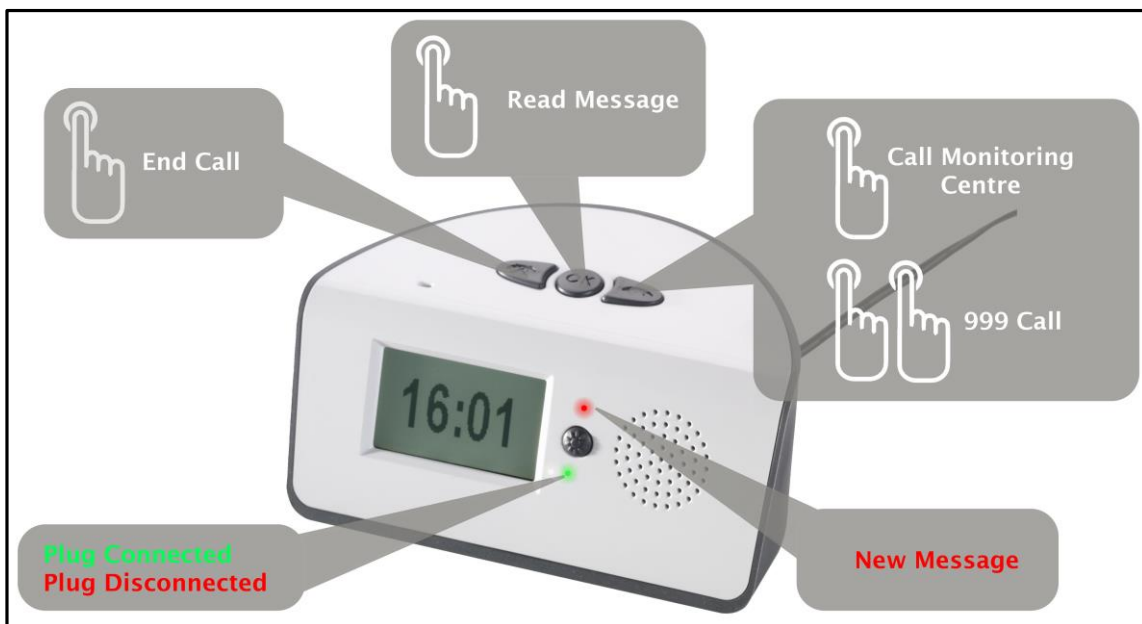
To avoid interference to nearby appliances, do not place the Dock or Communications Clip on or near a TV, microwave oven, or VCR. If this RF Beacon does cause harmful interference to radio or television reception, increase the separation between the RF Beacon and receiver.

4. Smart Beacon Operation

The Smart Beacon communicates via GSM (with a PSTN option where required) to a server based monitoring platform, which interprets the data provided to populate a web portal user interface. The data sets include the following:

- Event Time.
- GPS Location (Intervals can be defined, or a real-time request made).
- Speed of Motion.
- Battery Level.
- Mains Power On / Off.
- Signal Strength.
- Case Tampering.
- Alerts (Based upon one or more of the above).

The Smart Beacon LCD will display the time as default, but will also display text messages sent to the subject by the monitoring centre. The integrated speaker and microphone provide for two-way voice communications, which are controlled by the three buttons on the top surface of the device. The LCD has an adjustable backlight, which is controlled by the round button on the front surface.



User Manual-Smart Beacon	Version:	1.23	
	Date:	07-04-14	
	Page:	6 of 7	

When in proximity to a Smart Tag, the Smart Tag will not attempt to achieve new GPS fixes, resulting in significantly less demand on the Smart Tag battery power.

The Smart Beacon and Smart Tag together can be configured to provide a curfew monitoring system, with GPS back-up when required, resulting in much improved battery life for the Smart Tag.

5. Sanitization and Re-Use

5.1. Smart Beacon

5.1.1. Collection

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

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

5.1.2. Inspection

The Smart 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. Areas that require special attention are;

- The LCD display.
- Seams between casing elements.
- Surfaces surrounding buttons.
- Check the buttons still function, including the backlight.
- The condition of the 3 security labels on the bottom surface.
- The power cable.
- The bottom surface of the unit, around where the power cable enters.

5.1.3. 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 Smart Beacon is only a splash proof product and therefore it is important not to fully immerse the unit in any liquid.

To sanitise a Smart 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.

User Manual-Smart Beacon	Version:	1.23	
	Date:	07-04-14	
	Page:	7 of 7	

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
- This equipment contains an FCC approved TELIT GSM Modem FCC ID R17GE865
- The product must be installed to provide a separation distance of at least 20 cm from all persons