Installation Manual

Impaq SC-W

INS876-1

Texecom

Content

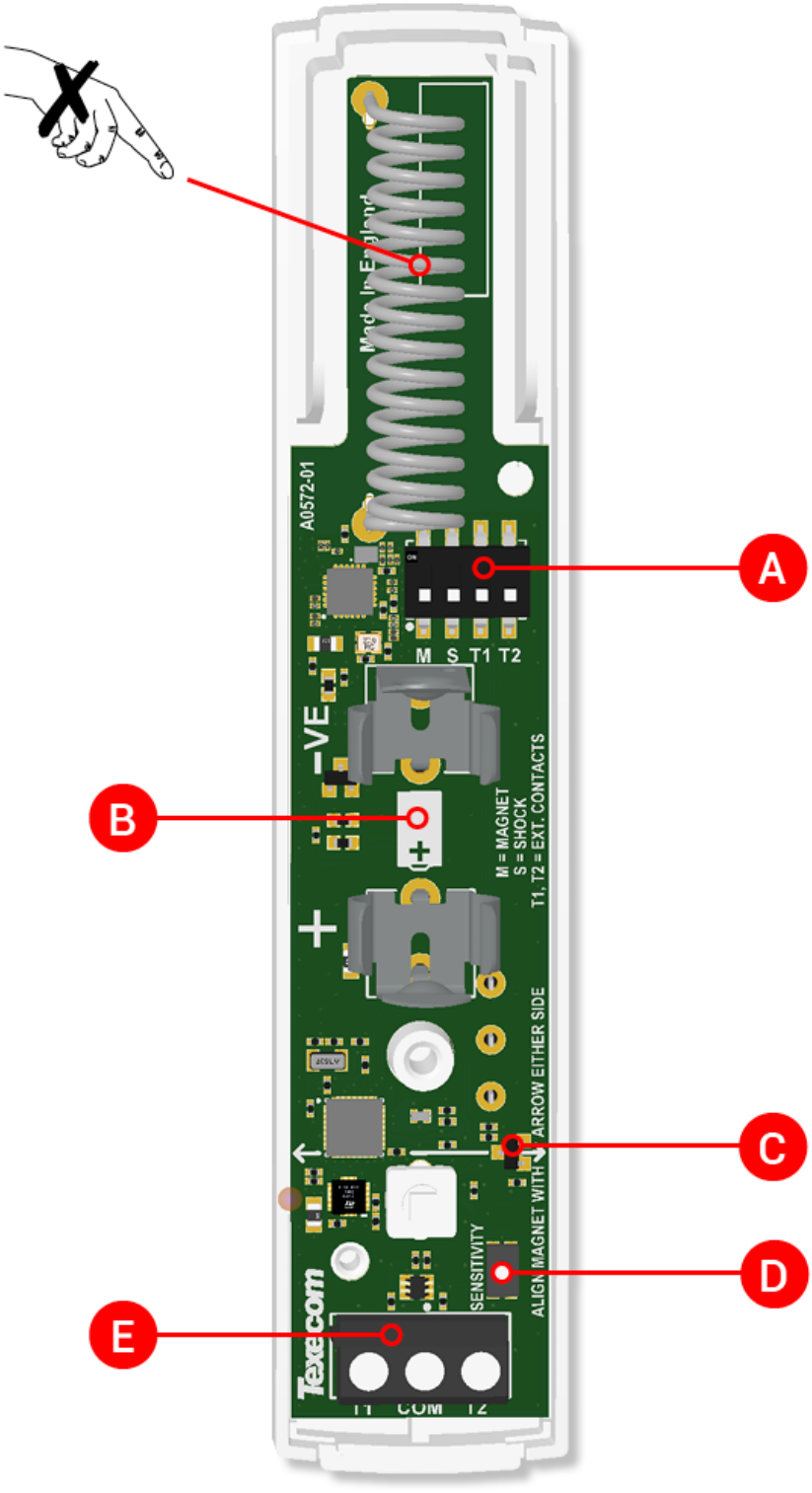
1.0 Introduction

The Impaq SC-W is a wireless shock sensor with an on board magnetic contact. The product can also be used with an externally wired magnetic contact and has an additional facility for use with window shutter movement detectors.

- When using Premier Elite Firmware Version 2.10 and above the dedicated *Ricochet* learn menu can be accessed via the omit key when in the Engineers menu. For all other firmware versions please refer to the Premier Elite 8XP-W/32XP-W Installation Manual.
- See the Premier Elite 8XP-W/32XP-W Installation Manual for details of how to change the device attributes and learning.

Figure 1 shows the key parts of the device that are used for configuration.

Figure 1


A
B
C
D
E
M S T1 T2
-VE
+
M = MAGNET
S = SHOCK
T1, T2 = EXT. CONTACTS
ALIGN MAGNET WITH ARROW EITHER SIDE
SENSITIVITY
T1 COM T2
A0572-01
Made In England

Icon	Item
A	Function select DIP switch
B	Battery
C	Magnet sensor
D	Sensitivity selection button
E	External input terminal block

2.0 Initial configuration & learning on

2.1 DIP switch configuration

Each switch controls one sensor (shown below). The DIP switches should be changed after the device is learnt to the system (unless you are only using the device as a Ricochet wireless repeater).

DIP Switch	Controls
M	Magnetic contact sensor
S	Shock sensor
T1	Terminal 1
T2	Terminal 2

Note 1: Terminal 2 functions as a tamper input. To enable this, configure the DIP switch labelled T2 to the ON position.

Note 2: To comply with EN50131-2-8, move **ONLY** DIP switch "S" to the ON position. To comply with EN50131-2-6, move **ONLY** DIP switch "M" to the ON position.

2.2 Additional inputs 1&2

The Impaq SC-W has 2 additional inputs. These may be used for any normally closed output device and utilise wireless transmission to the receiver. Typical examples for use are:

- Any locally powered device with a normally closed output e.g. Smoke detectors, Glass Break detectors, Movement Sensors, Flood detectors etc.
- Any non-powered normally closed output device, e.g. Specialist magnetic contacts, fixed PA buttons etc.

2.3 Learning the device to the system

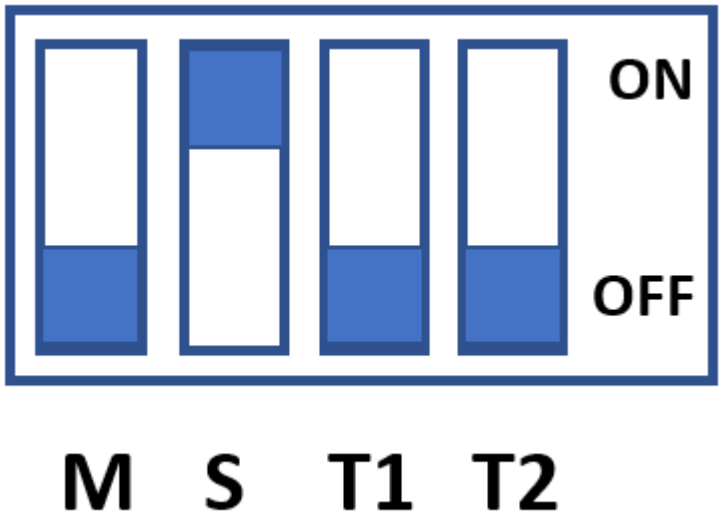
To learn the device to the system:

- Select an empty zone slot for the device and put the system into learn mode.
- To power up press and hold the sensitivity button for 3 seconds.
- The LED will flash pink while it communicates to the receiver. The LED will turn green if the device has successfully learnt onto the system. If the LED turns red the learn has failed.
    - Check the system is in learn mode.
    - Move closer to the panel or expander.
    - Ensure you are learning the device to an “empty” zone.

NOTE: The device will provide a low battery signal to the panel, once this signal is displayed the battery should be replaced within 30 days.

- Configure the DIP switches so that the sensor/s you want to use are set to the ON position (see example in figure 3).

Figure 3



2.4 Using the device with a roller shutter contact

The Impaq SC-W can be used with retracting cord contacts to protect door and window roller shutters. These are particularly useful when the shutter is left in a partially open position but still needs to be protected against forced entry. The device is compatible with all microswitch 2 wire roller shutter contacts.

To learn the device with a roller shutter contact:

- Connect the roller shutter contact to terminal 1.
- Complete the learn process by following the steps in section 2.3.
- Configure the DIP switch labelled T1 to the ON position.

To test the device:

- Once the device is learnt to the system, pull the cord on the roller shutter contact.
- The device will treat 6 or more pulses within a 10 second period as an activation.

3.0 Wireless range test

- The wireless range test is available for the first hour after power up or while the system is in walk test mode – see Premier Elite 8XP-W/32XP-W installation manual.
- With the device in position, press and hold the sensitivity button for 3 seconds.
- The LED will flash pink and turn green when a wireless connection is confirmed.
- Should the LED turn red move the device away from metal objects, closer to the receiver or add more devices to the mesh network.
- Once the device leaves commission mode, the device will not show any status LED's.

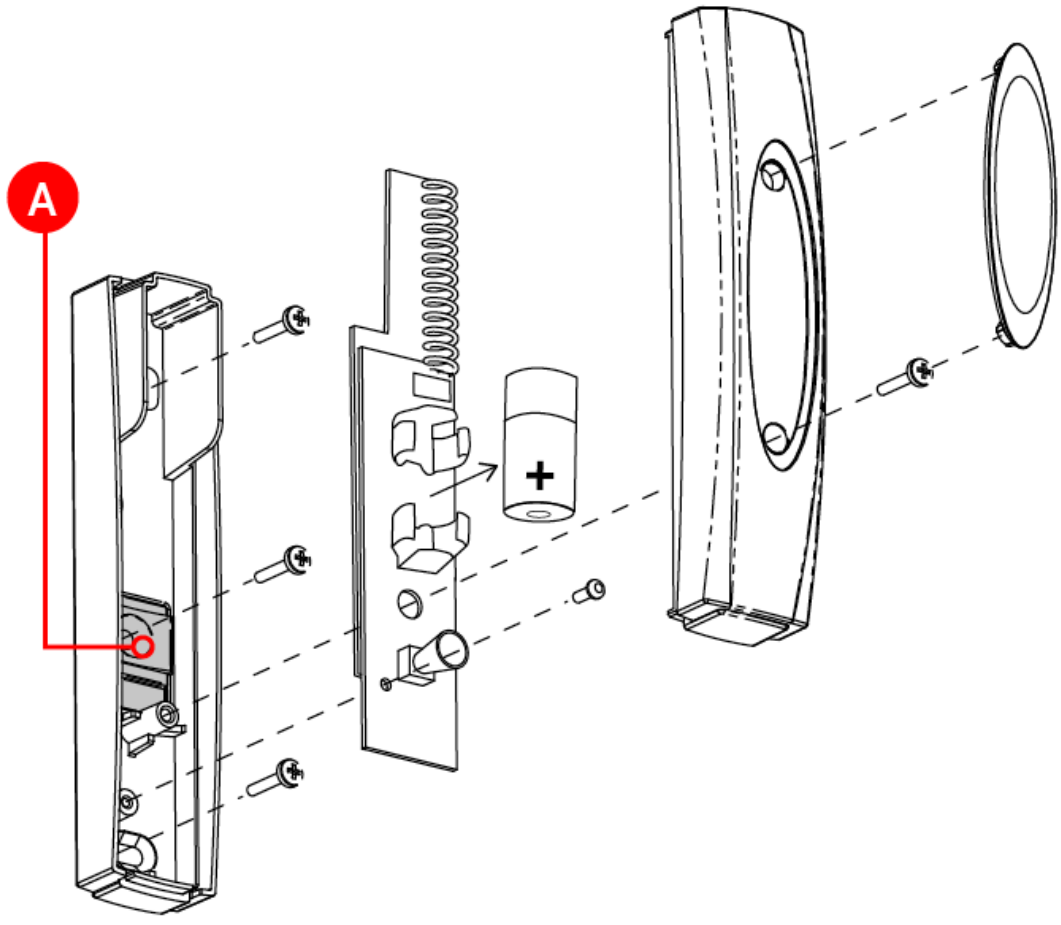
4.0 Mounting

4.1 Device mounting

- Select the intended mounting position. The device can be installed in any mounting orientation.
- Open the device cover and remove the PCB using a screwdriver (see figure 4)
- **To ensure product compliance with EN50131**, fix both the detector and the rear tamper insert to the mounting surface using the following type of screws:
    - Head Type: Counter Sunk flat head
    - Head Diameter: 5.3-6.8mm
    - Screw Diameter 2.9-3.2mm
    - Screw length: 15.8-24.5mm

NOTE 1: If the product is mounted on concrete suitable wall plugs should be used.
NOTE 2: If using the magnet, the same screw types should be used for installation.

Figure 4

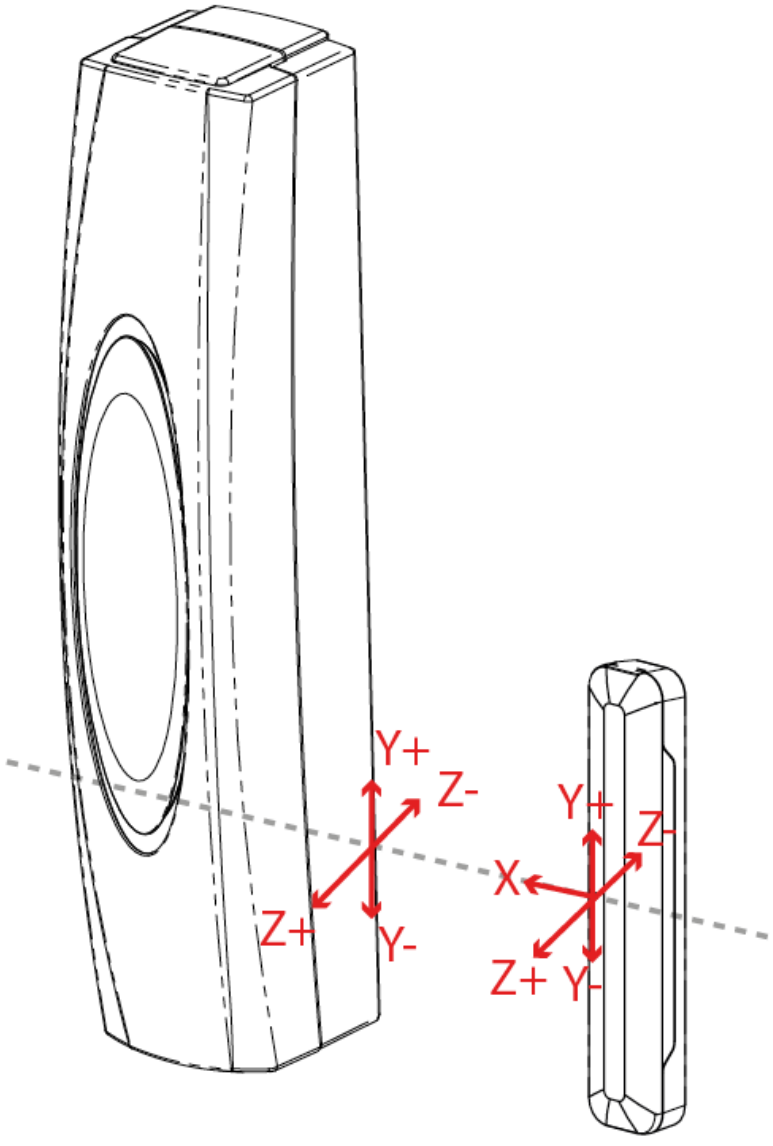


4.2 Magnet positioning

- Once the device has been mounted, position the magnet so the notch is aligned with either of the arrow markers on the sides of the PCB, the LED will pulse green indicating a secure state.
- The magnet can be installed on either side of the device. However, greater sensitivity is achieved by placing the magnet at the bottom right of the device and aligning the notch and the arrow. (see figure 5 for magnet distances)
- If the device LED pulses red, move the magnet closer to the device until the LED turns green.

- The LED indication for magnet positioning is time limited whilst the system is in commission mode.

Figure 5

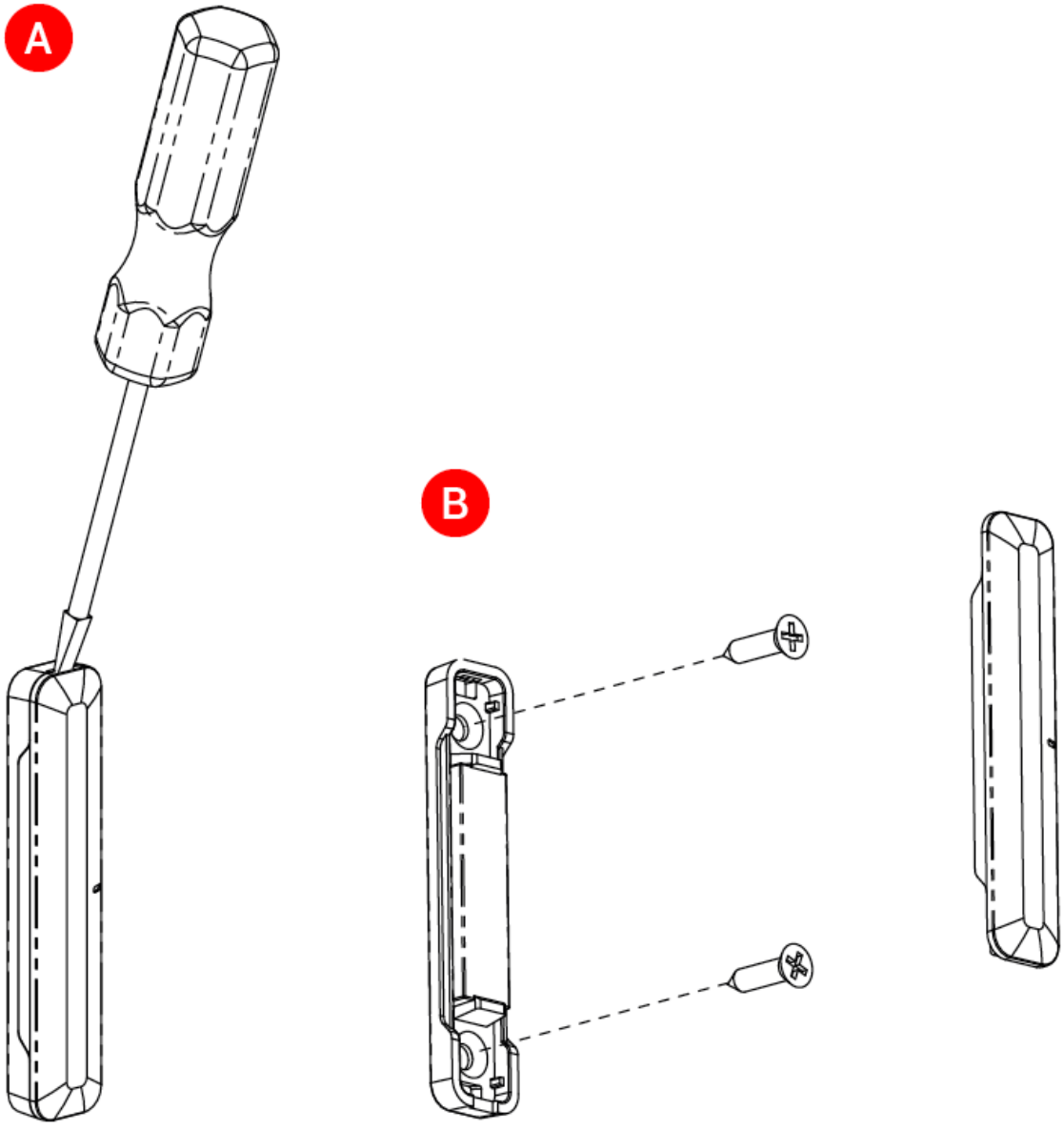


Side of Device	Axis	Approach Min (mm)	Removal Max (mm)

Right	X	33	36
	Y+	6	7.5
	Y-	6	8
	Z+	50	52
	Z-	35	41
Left	X	24	30
	Y+	5	7
	Y-	7	8.5
	Z+	52	56
	Z-	27	33

- Once the correct position has been located fix the magnet in place (see figure 6).

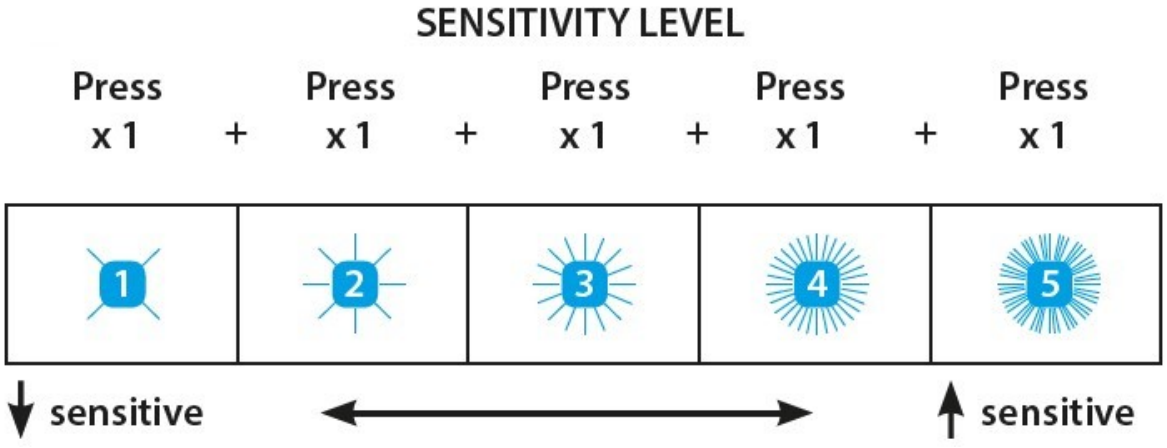
Figure 6



5.0 Setting the shock sensitivity

- Within 10 minutes of learning the device (or by activating walk test mode), double press the sensitivity button and the LED will flash blue defaulting to

sensitivity setting 2. There are 5 sensitivity settings from 1 to 5 with 1 being the least sensitive (slowest flash rate) and 5 the most sensitive. Each press of the button will change the sensitivity indicated by the flash rate of the blue LED, cycling from slow to fast and finally back to slow after 5 presses.



Recommended Sensitivity Setting*	Material	Radius
1	Wood	1m
2	Framed Glass Window	1m
5	Concrete	0.5m

- Before testing the device, press and hold the button (3 secs) to set the desired sensitivity setting.
- The LED will turn green for confirmation at which point the device is ready for impact testing.
- On impact test, if the LED turns red, the selected sensitivity setting is appropriate for the installation. If it doesn't turn red, select the next sensitivity and repeat the test. Continue until a level is selected whereby the device LED turns red on impact.

***Based on the testing requirements of EN50131-2-8 : 2016**

6.0 Specifications

Specifications	
Alarm System	EN50131-2-8:2017, EN50131-2-6:2008, EN50131-5-3:2017, EN50131:2006+A2:2017, PD6662:2017, Grade 2 Class II
Product Type & Frequency Band	GJAA1000 868.2 – 868.4MHz GJAA2000 866.2 – 866.4MHz (Not CE approved) GJAA3000 433.3 – 433.7MHz
Receiver	Category 1, Class 2
Receiver LBT	Listen Before Talk
Transmitter Duty Cycle	<1%
Max RF Power	10mW
Low Voltage Signal	2.50V
Operating Voltage	3V
Maximum Current	12mA
Quiescent Current	19µA
Relative Humidity	0 - 95% non-condensing
Operating Temperature	-10°C to 55°C
Weight	80g
Dimensions	130mm x 26mm x 25mm (magnet 57mm x 11.5mm)

7.0 Legal Information

Supplier: Texecom Ltd, Haslingden, Lancashire, BB4 4PW, UK.

Made in England

WEEE Directive: 2012/19/EU (WEEE Directive): Products marked with this symbol

cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

Maintenance: Test yearly by the installer.

Warranty: 2 year replacement warranty (excludes battery).

As the Impaq SC-W is not a complete alarm system, but only a part thereof, Texecom cannot accept responsibility or liability for any damages whatsoever based on a claim that the Impaq SC-W failed to function correctly. Due to our policy of continuous improvement Texecom reserves the right to change specification without prior notice.

Domestic Use: If this product is installed within reach of children the screw cover should not be fitted as this could cause a choking hazard.

Hereby, Texecom declares that the equipment type : GJAA1000 and GJAA3000, is in compliance with the Radio Equipment Directive (RED) 2014/53/EU and the Electo-magnetic Compatibility (EMC) Directive 2014/30/EU.
The full EU declaration of conformity is available here.

Certified by Telefication B.V.

Battery Safety

- Do not throw into a fire
- Do not heat
- Do not disassemble
- Do not charge
- Do not short circuit
- Replace with battery type CR2
- Always observe local regulations when disposing of a battery
- Detector will transmit low battery warning when battery needs replacing