

# FOB-2W-4B

## User Guide



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# 1. Introduction

The two-way keyfob, FOB-2W-4B, is a remote control designed to give you confidence that your alarm system has set or unset correctly. When you operate the buttons on the fob, the control unit sends back signals which light up one or more LEDs on the fob to let you know what is happening. The LEDs can show whether your system has set or not, or if there is a fault that prevents setting.

The rest of this guide explains the features of the FOB-2W-4B in detail, and shows you how to make the alarm system learn the identity of a new fob. For details on how to operate your alarm system please read the *Administration Guide* for your alarm system.

## Fitting the Battery

When your fob is delivered from the factory, the battery is packed separately to ensure that it does not discharge during shipping. To fit the battery for the first time (see figure 1):

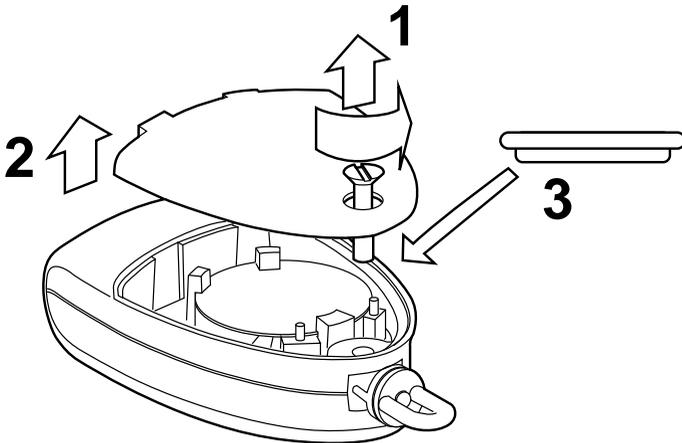


Figure 1.

1. Undo the screw on back of the fob. Note that the screw holds the shackle for the key ring. Place the shackle and ring somewhere safe for the moment.

2. Lift off the battery lid.
3. Fit the new battery. The positive side of the battery should be on top. Note: make sure your hands are clean and dry when handling the battery. Even small amounts of grease or dirt can affect the contact between the battery and the fob.
4. Re-fit the battery lid.
5. Hold the key-ring shackle in place and re-fit the screw you removed in step 1.
6. Tighten the screw until it holds the battery lid closed. Do not over-tighten the screw.
7. Test the new battery by holding down the Query button on the fob for three seconds (see figure 2). You should see the red LED by that button flashing.

## ***A Guided Tour***

When you receive your fob for the first time, take a minute to look at it and identify each of the buttons. Figure 2 shows you where they are.

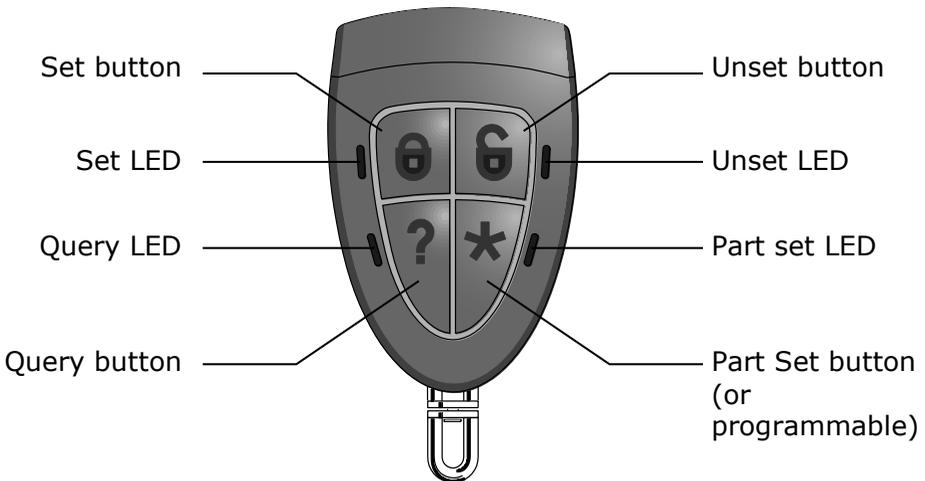


Figure 2.

## ***Operating the buttons***

To ensure that the fob does not accidentally operate while it is in your pocket, the buttons are deliberately slow to respond to pressure. You must hold down the button you intend to press for at least three seconds to activate its function.

Once the fob recognises that you intend to press a button, a red LED next to the button will flash three times quickly. At the same time the fob sends a radio message to the control unit of your alarm system.

After carrying out the function you selected on the fob, the control unit will send back a signal to the fob. The fob lights a green LED next to the appropriate button for three seconds. The green LED is your confirmation that the control unit has carried out the function indicated by the button.

## 2. Using the Fob

### Setting the System

Press and hold:



The setting LED flashes red three times.



The system sets. The control unit sends a message to the fob.

The setting LED glows green for three seconds.



### Part Setting the System\*

Press and hold:



The part setting LED flashes red three times.



The system part sets. The control unit sends a message to the fob.

The part setting LED glows green for three seconds.



\*The ☆ button can be programmed to carry out another function. See the *i-on Range Administration Guide*.

### What Happens if the System Will Not Set (or Part Set)

If there is a fault (for example a door open) when the system tries to set or part set then the control unit sends a message to the fob to say that it cannot set.

All four LEDs glow red for three seconds.



## Unsetting the System

Press and hold:



The un-setting LED flashes red three times.



The system unsets.

The unset LED glows green for three seconds.



## Querying the State of the System

Press and hold:



The query LED flashes red three times.



The control unit send a message to the fob giving the current state of the system. If the system is:

Full Set, you see:



Part Set, you see:



Unset, you see:



## PA\*

\*This function may be disabled by the installer to comply with current regulations.

Press and hold any two diagonally opposite buttons at the same time.

All four LEDs flash red three times.



The control unit starts a PA alarm. If your system is connected to an alarm receiving centre the control unit sends a PA alarm message to them. The

control unit then sends a message to the fob to confirm that it has started a PA alarm.

All four LEDs glow green for three seconds.



## 3. Registering Fobs on the System

You can register a fob on the alarm system yourself (provided you are not a "Guard" or "Set Only" user. (A Master User or Admin User can register a fob for a new user when they first add the user to the system.)

*Note: The sample screens on the right show "i-on160EX" as the control unit. The steps below will also work with any other control unit in the i-on range.*

1. Make sure the display shows the standby screen.

```
i-on160EX
11:15 26/08/2011
```

2. Press .

```
Enter Access Code
( )
```

3. Key in your access code (or present a tag).

```
MENU
Omit Zones >
```

4. Press .

```
MENU
Users >
```

5. Press .

```
USER 002
Code
```

6. Press  until the display shows:

```
USER 002
Remote >
```

7. Press .

```
Press button to
identify Remote
```

The display asks you to press one of the buttons on the fob.

*Note: If you already have a Remote allocated to you then the screen will display "Delete Remote?". See page 9.*

8. Press any button on the remote control that you wish to register. Hold the button down until you see the transmit LED flash.

The control unit learns the identity of the Remote and links it with your access code.

If the control unit has already learned that remote control then you will hear a low tone and the display tells you that the remote control is already in use.

If you do not wish to register a remote control press **X**.

```
Remote added
```

followed by:

```
USER 002  
Remote >
```

## 4. Deleting Fobs From the System

If you have lost a fob assigned to you then you should delete it from the system to make sure that no unauthorised person can use it. Also, if you wish to reassign a device to another user, you must first delete it from the system.

To delete a fob:

1. Make sure the display shows the standby screen.

```
i-on160EX
11:15 26/08/2011
```

2. Press **≡**.

```
Enter Access Code
( )
```

3. Key in your access code (or present a tag).

```
MENU
Omit Zones >
```

4. Press **▼** until you see:.

```
MENU
System Config >
```

5. Press **✓**.

```
SYSTEM CONFIG
Facilities On/Off >
```

6. Press **▼** until the display shows:

```
SYSTEM CONFIG
Remotes >
```

7. Press **✓**.

```
REMOTE
Edit >
```

8. Press **▼** until the display shows:

```
REMOTE
Delete >
```

9. Press **✓**.

The display shows:

```
DELETE REMOTE
Press Remote button
```

10. Press **✓**.

The bottom line of the display shows the first in a list of the known devices.

```
DELETE REMOTE
RM01:User 01
```

11. Press ▼ until the bottom line of the display shows the remote you wish to delete.

```
DELETE REMOTE
RM02:User 02
```

12. Press ✓.

```
DELETE REMOTE
Delete
```

13. Press ✓.

```
Remote Deleted
```

The control unit deletes the remote from its memory. The remote can no longer be used on the system.

followed by:

```
REMOTE
Delete >
```

14. Press ✕ repeatedly to leave the menu.

To re-register the fob, re-enter the Menu and select *Users - Edit User*. Select the user name to want to assign the fob to, and then follow the instructions on page 7.

## 5. Changing the battery.

If you have had the fob for some time and the battery has run low, then you will need a 3V CR2450 LiMnO<sub>2</sub> type battery as a replacement.

When you have the replacement ready, change the battery as follows:

1. Undo the screw on back of the fob (see figure 3)

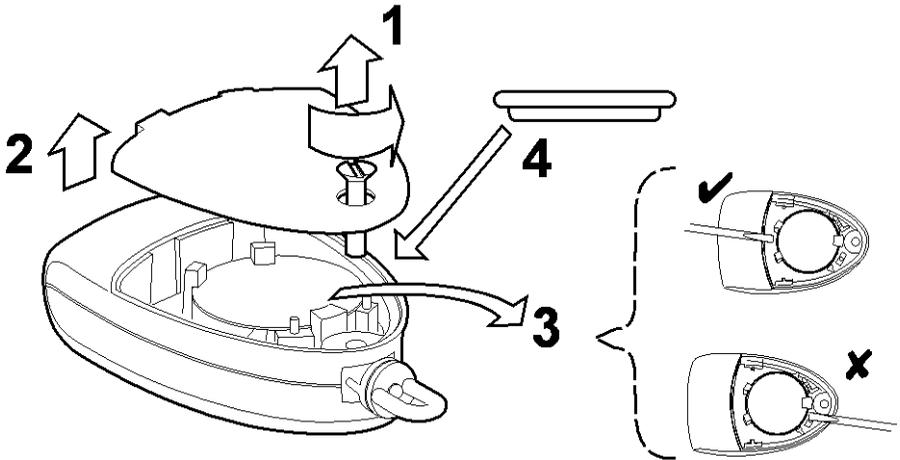


Figure 3.

2. Lift off the battery lid.
3. Note which way up the battery is fitted and gently prise out the old battery. CAUTION: Do not try to prise out the battery by inserting a screwdriver near battery contacts.
4. Fit the new battery. Make sure you insert it with the positive side upwards. Note: make sure your hands are clean and dry when handling the new battery. Even small amounts of grease or dirt can affect the contact between the battery and the fob.
5. Re-fit the battery lid.
6. Hold the key-ring shackle in place and re-fit the screw you removed in step 1.

7. Tighten the screw until it holds the battery lid closed. Do not over-tighten the screw.
8. Test the new battery by holding down the Query button on the fob for three seconds. You should see the red LED by that button flashing.

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## **6. Technical Specifications**

### **General**

Product number	FOB-2W-4B.
Product Description	Keyfob 2 way 4 button.
Manufacturer	Cooper Security Ltd.
Environmental	Class II.
Operating temperature	Tested -10 to +55°C in accordance with 50130-5.
Humidity	0 to 93% RH, non-condensing.
Case material	Acetal (Polyoxymethylene).
Dimensions	58 x 38 x 19 mm HxWxD without keyring shackle Keyring plus shackle adds 26mm to length.
Weight	32g (incl battery and keyring).

### **Battery:**

Type	Li-Mn. CR2450
Voltage	3V
Duration	3 years, based on four operations per day (See Note overleaf.)

### **Radio:**

Operating frequency	868.6625MHz Narrowband.
Transmitter range	The range of the transmitter depends on the environment in which it is used. As a guideline, most transmitters will work in excess of 200m range in free space conditions.

# Security

Security Grade	Grade 2
Digital key differs	16,777,216 ( $2^{24}$ )

Note:

Prolonged and continuous use at temperatures below 5°C may cause the unit to signal low battery, although it will continue to operate as required. This is because the voltage of coin cell batteries is affected by low temperatures.

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