



# FireAngel ZB-MODULE P-LINE Zigbee Module Installation Guide

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# ***FireAngel®***

**FireAngel ZB-MODULE P-LINE Zigbee Module**



## INTRODUCTION

The original English version of the manual, from which these translations were taken, has been independently approved. In case of discrepancy with translated parts, FireAngel Safety Technology Limited confirms that the English guide is true and correct.

This wireless module is designed to be installed in a Zigbee compatible smoke, heat or carbon monoxide (CO) alarm which offers an additional option for wireless connectivity. For the current range of Zigbee compatible products visit [www.fireangeltech.com](http://www.fireangeltech.com)

When the wireless module is fitted into a Zigbee compatible FireAngel smoke, heat or CO alarm, it enables the unit to be wirelessly connected to a third party Zigbee Controller.

When any of the connected products are triggered by smoke, heat or CO, the unit will transmit messages to the main Controller.

**NOTE:** You will need the User Manual of the product into which you are installing the wireless module in order to understand alarm operation. Zigbee module characteristics are different to those stated in FireAngel Wi-Safe 2 literature, please contact Technical Support on 0800 141 2561 or email [technicalsupport@fireangeltech.com](mailto:technicalsupport@fireangeltech.com) for more information.

This product can be included and operated in any Zigbee network with other Zigbee certified devices from other manufacturers. All non-battery operated Zigbee modules within the network will act as repeaters regardless of vendor to increase the range and reliability of the network.

## HOW TO INSTALL A ZIGBEE WIRELESS MODULE

**(ZB-MODULE)** Please read these fitting instructions carefully before proceeding, paying particular attention to the

ESD handling guidelines below.

- Remove the label which covers the module aperture on the host unit.
  - Avoid carpeted areas in cool, dry areas if possible, and reduce static electricity if necessary by touching a grounded metal object.
  - Carefully remove the module from its packaging, handling the module only by the protective plastic cover, to avoid electrostatic discharge.
  - Be careful not to touch the components or connector pins.
  - Remove the plastic battery insulation tab by pulling it out.
  - Carefully plug the module into the aperture in the unit, pushing down until it lies flat within the base of the unit.
- The unit is now ready to be added (included) to the Zigbee Controller.

### **‘ADDING’ YOUR ZIGBEE UNITS**

Do not attempt to add your Zigbee Module unless you are familiar with the operation of your Zigbee Controller.

1. Read the instructions for your Zigbee Controller regarding adding new devices. Then initiate the inclusion function from your Zigbee Controller.
2. Press the add button once the Zigbee Module is on the device. The LED will show a quick blink once per second while the module is being added. This process may take as long as 30 seconds, but typically is much quicker.
3. Upon successful inclusion, the Zigbee Module LED will light up for 3 seconds then turn off. Once connected the LED will blink once every 3 seconds for the first two hours to show successful learning in, but disable after that to conserve battery life.
4. If inclusion does not succeed, restart at step 1.
5. If successful, place the alarm on its base and wait at least 30 seconds.
6. Press the test button on the alarm. If the Zigbee Controller provides CIE functionality – verify that it receives Notification Reports
7. After the Zigbee Module is included, you may define association groups or perform other configuration operations from the Zigbee Controller.

**NOTE:** The effective range of the wireless module may be reduced by walls and other obstructions in the building. The range is typically expected to be in the region of 10m between the alarm and the controller, but will be influenced by the factors mentioned above. In case the controller is out of range, the use of any mains powered Zigbee device within range of the alarm will operate as a repeater and will help to extend the range. For information about where to position the alarm, and operational guidelines, please see the device user manual.

### **‘REMOVING’ YOUR ZIGBEE UNITS**

1. Read the instructions on your Zigbee Controller regarding removing devices. Note: Only the Zigbee coordinator who added the device to the Zigbee network is capable of removing that device from the network.
2. Reset module to Factory state. Press and hold the button for at least 5 seconds.
3. Upon successful removal, the Zigbee Module LED will blink 10 consecutive times.
4. If the removal operation does not succeed, restart at step 1.
5. After removing, either a) add the Zigbee Module into a different Zigbee Controller, or b) remove the battery from the Zigbee Module.

Once the Zigbee module is removed from a device, it needs to be reset before it can be used in another device.

1. Press button on the Zigbee Module, hold it for 5 seconds and then release it. 10 consecutive LED blinks will indicate successful resetting.
2. The module can then be placed in a new device and learned-into a network again. Resetting the module will erase the network as well as the device details from the module.

Please use this procedure only when the network primary controller is missing or otherwise inoperable.

## **BATTERY**

The ZB-Module contains 1 x CR2 lithium battery. The module will send a low battery Notification Report to the Zigbee controller when it is time for a replacement. The ZB-Module is compatible with any Zigbee Controller, however the battery life may be shortened due to default settings on some controllers.

For a full list of recommended controllers and configuration details visit [www.fireangeltech.com](http://www.fireangeltech.com)

## **REPLACING THE BATTERY**

1. Remove the module from the alarm.
2. Without touching any metal pins on the module, carefully remove the battery. Dispose of the battery appropriately.
3. Without touching any metal pins on the module, insert a new CR2 battery, checking for correct orientation.
4. Re-insert the module into your alarm.
5. Place the alarm on its base and wait at least 30 seconds.
6. Press the test button on the alarm, If the Zigbee Controller provides CIE functionality – verify that it receives Notification Reports

**NOTE:** The alarm device is not dependent in any way on the removable battery inside the module. Not replacing the battery inside the module will only prevent the alarm communicating to the Zigbee Controller.

## **LIMITATIONS OF THE ZIGBEE SYSTEM**

1. Alarms use Zigbee cluster commands to interact with each other in the Zigbee network.
2. The Zigbee protocol is not a life safety protocol and should not be relied upon for life safety.
3. If your internet connection is lost, communication from your 3rd party controller (i.e. to cloud or mobile devices) may not be possible. Your alarm will still continue to operate as a standalone alarm and does not rely on an internet connection to do so.

## **WARRANTY**

For information on alarm warranty (not including the ZB-Module or replaceable battery) please refer to the main alarm manual.

FireAngel Safety Technology Limited warrants to the original purchaser that its enclosed ZB-Module be free from defects in materials and workmanship under normal residential use and service for a period of 2 (two) years (and not including the replaceable battery) from the date of purchase. Provided it is returned with proof of purchase date, FireAngel Safety Technology Limited hereby warrants that during the 2 (two) year period commencing from the date of purchase FireAngel Safety Technology Limited, at its discretion, agrees to replace the unit free of charge.

The warranty on any replacement ZB-Module, will last for the remainder of the period of the original warranty in respect of the wireless module originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product.

FireAngel Safety Technology Limited reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or in stock. This warranty applies to the original retail purchaser from the date of original retail purchase and is not transferable. Proof of purchase is required. This warranty does not cover damage resulting from accident, misuse, disassembly, abuse or lack of reasonable care of the product, or applications not in accordance with the user manual. It does not cover events and conditions outside of FireAngel Safety Technology Limited's control, such as Acts of God (fire, severe weather etc.). It does not apply to retail stores, service centres or any distributors or agents. FireAngel Safety Technology Limited will not recognise any changes to this warranty by third parties.

FireAngel Safety Technology Limited shall not be liable for any incidental or consequential damages caused by the breach of any expressed or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration for 2 (two) years. This warranty does not affect your statutory rights. Except for death or personal injury, FireAngel Safety Technology Limited shall not be liable for any loss of use, damage, cost or expense relating to this product or for any indirect or consequential loss, damages or costs incurred by you or any other user of this product.

## DISPOSAL

Waste electrical products should not be disposed of with your other household waste, but within the waste electronic and electrical equipment (WEEE) recycling scheme.

- **WARNING:** Do not attempt to disassemble.
- **WARNING:** Do not burn or dispose of in fire.

## TECHNICAL SPECIFICATION

### Compliance:

- EN 300 328
- EN 301 489-1
- EN 301 489-3
- **Frequency:** 2.4GHz
- **Contains:** Replaceable (CR2) lithium battery

With the present declaration, FireAngel Safety Technology Limited confirms that the Zigbee Module conforms to the essential requirements and other relevant measures of the 2014/53/EU Directive. The Declaration of Conformity can be accessed on the website: <http://spru.es/EC-Zigbee>

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Email [technicalsupport@fireangeltech.com](mailto:technicalsupport@fireangeltech.com)

For further information on the ZB-Module please visit [www.fireangeltech.com](http://www.fireangeltech.com)

## Documents / Resources



[FireAngel ZB-MODULE P-LINE Zigbee Module](#) [pdf] Installation Guide  
ZB-MODULE P-LINE, Zigbee Module, Module, ZB-MODULE P-LINE Module