

INTRODUCTION

This wireless module is designed to be installed in a Smart RF compatible smoke, heat or carbon monoxide alarm which offers an additional option for wireless connectivity (and which is not already wireless enabled). For the current range of Smart RF compatible products see www.fireangeltech.com

NOTE: This Smart RF Module operates on FireAngel's Wi-Safe 2 networking protocol.

When the wireless module is fitted into a Smart RF compatible FireAngel smoke/heat or carbon monoxide alarm it enables the unit to be wirelessly interlinked with other Smart RF enabled products.

When any of the interlinked products are triggered by smoke/heat (or carbon monoxide in the case of CO alarms), that unit will transmit messages to the other units in the network, sounding all the alarms in the system simultaneously, which means they provide the earliest warning of fire, to the maximum number of people. Any number of units from two, up to fifty alarms can be interlinked into a single network.

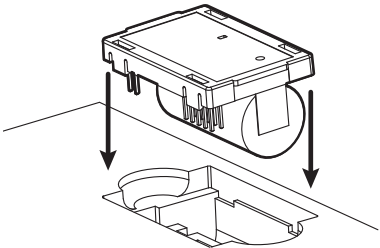
NOTE: You will need the User Manual of the product into which you are installing the wireless module in order to then wirelessly interconnect the product with other alarms in the network. If this is not available please contact Technical Support on 0330 094 5830 or download from www.fireangeltech.com

Please read these fitting instructions carefully before proceeding, paying particular attention to the ESD handling guidelines below.

HOW TO INSTALL A FIREANGEL W2-MODULE

When you're ready to install the wireless module into the compatible alarm, ensure you observe ESD handling guidelines.

- Remove the label which covers the module aperture at the back of the 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.
- Carefully plug the module into the aperture in the unit as shown, pushing down until it lies flat within the base of the unit.



The unit is now ready to be “learned – in” (interlinked) to additional Smart RF products.

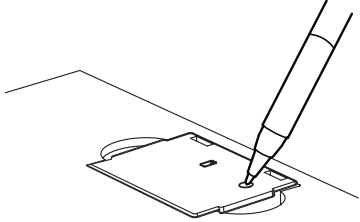
“LEARNING IN” (INTERLINKING) YOUR WIRELESS UNITS

The process below describes ‘learning in’ two Smart RF alarms into a network, “Alarm 1” and “Alarm 2”. Alarm 2 will be the unit into which you have installed the Wireless Module.

It is recommended that you read through these instructions prior to starting the process.

Alarm 1: Before starting, refer to the product's User Manual to ensure the alarm is activated and ready to be learned in, with its mounting plate (if appropriate) attached. Please test the unit once after mounting to baseplate.

Alarm 2: Using a pen, a very small screwdriver or paper clip that has been opened out, briefly push and release the learn button located in a small hole in the wireless module.



The red LED next to the learn in button will flash briefly then light up for approximately five seconds to show that it is ready to receive the “learn in” signal. During the next 5 seconds you will need to briefly press the test button on Alarm 1 to wirelessly interlink the two alarms.

Alarm 1: Will give an audible sound consisting of 2 cycles of 3 loud beeps.

Alarm 2: The red LED on the wireless module of alarm 2 will flash to indicate that it has been “learned-in” successfully.

NOTE: If the test button is not pressed quickly enough (before the red LED on the wireless module of Alarm 2 has extinguished), the learn-in process will fail. If this happens, repeat the “learn-in” process again, as described above.

Additional products should be “learned-in” in the same way. When learning in additional alarms, any alarm already in the network, can be used as ‘Alarm 1’. This means that you can “learn-in” the additional alarm into any unit already in the network. It will then become part of the whole network.

NOTE: You do not need to “learn in” the additional alarm into each alarm in the network.

After completing the “learn-in” procedure, test the alarms as described in “alarm test” in the product's user manual.

If any interlinked alarm fails to respond to the “alarm test”, repeat the learning in process. If the product continues to fail to operate correctly, please contact Technical Support on 0330 094 5830 or email specification@fireangeltech.com

For information about where to position the alarm, and operational guidelines, please see the User Manual for the host product.

NOTE: The wireless range of the module is over 200 metres in clear air/clear line of sight. Always ensure that after any building work or after repositioning large items of furniture (beds, sofas, shelving units etc.), you carry out an alarm test on all networked alarms to ensure they are all still communicating. It is recommended not to exceed 35m as the maximum distance between any interlinked Smart RF alarm.

Ideally, each unit should have three or more units within 35m of its location. RF range can be reduced by walls, and other obstructions in the building. The distance between units should be reduced if obstructions may interfere with RF range.

Unlearning your Smart RF Unit:

To remove an alarm from a network, push and release, then push and hold the learn button. When the red LED goes out, release the button. Once the LED has flashed 5 times you have successfully ‘Unlearned’ the alarm.

When removing an alarm / module from any Smart RF network it is generally good practice to “unlearn” every alarm/module (in the same way as mentioned before) and rebuild the network once again by following the “learning-in” process.

NOTE: it is important not to rush the Smart RF system and is also good practice to allow several minutes after un-learning the system before rebuilding the network once again.

WARRANTY

FireAngel Safety Technology Limited warrants to the original purchaser that its enclosed Wireless Module be free from defects in materials and workmanship under normal residential use and service for a period of 5 (five) years from the date of purchase. Provided it is returned with postage prepaid and proof of purchase date, FireAngel Safety Technology Limited hereby warrants that during the 5 (five) 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 W2-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 5 (five) 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.

RETURNS

If your W2-Module fails to operate correctly and you cannot resolve the problem, please contact your dealer.

Tel.: 0330 094 5830

E-Mail: specification@fireangeltech.com

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. Please recycle where facilities exist. Check with your local authority, or contact our technical support team for recycling /disposal advice as regional variations may apply.

WARNING: Do not attempt to open

WARNING: Do not burn or dispose of in fire

TECHNICAL SPECIFICATION

Compliance:

EN 301 489-1

EN 301 489-3

EN 300 220-2

Max RF power: +10dBm

Frequency: 868MHz

Contains: 10 year lithium battery



Hereby, FireAngel Safety Technology Limited, declares that this W2-Module is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at <http://spru.es/EC-W2-Module>

FURTHER INFORMATION

www.fireangeltech.com

FireAngel Safety Technology Limited
Vanguard Centre,
Coventry, CV4 7EZ

TROUBLESHOOTING

Problem	Solution (Alarm with W2-Module)
Your alarm does not sound during testing.	- Check positioning. The wireless signal might be blocked or out of range. - If you are in the process of learning in the alarm and it does not test – repeat the process. - If the alarm still fails to self test, please contact Technical Support (see below).
Your smoke alarm activates when no smoke is visible.	If the alarm is sounding but the red LED is only flashing once every 45 seconds, this indicates that an interlinked alarm has initiated alarm. Vacate the property if there is a fire hazard.
Your alarm chirps intermittently.	If your alarm is chirping once every 4 hours, it is indicating that another alarm in the network has entered a low battery condition. Locate the alarm with the low battery condition and replace the alarm as soon as possible and in any event within 30 days.
Other interlinked units fail to silence when one unit is silenced.	Interlinked units that have sensed a hazard can't be silenced. If one or more unit remains in alarm, all other interlinked units will emit their audible warning again within 4 minutes. Vacate the property if there is a fire hazard.
You experience frequent unwanted alarms.	Any activated alarm will cause other interlinked alarms to sound. Carry out these checks on the activated alarms in particular (red LED flashing rapidly during alarm).
The amber LED is flashing and the alarm is making a “chirping” sound.	If the amber LED is double flashing and the alarm is making a “chirping” sound, this indicates that the wireless module has a low battery condition, or is faulty. The W2-Module should be replaced as soon as possible.
If the alarm fails to operate correctly, the advice of the manufacturer should be sought.	If you have any questions about the operation of your alarm, please contact Technical Support between 9am - 5pm Monday – Friday. Telephone: 0330 094 5830.

ALARM INDICATORS

Red LED	Amber LED	Audible signal	Status	Action required
Flashes once every 45 seconds		Single chirp every four hours	Other alarm in network has low battery	Locate alarm with low battery and replace
Flashes once every 45 seconds		3 loud beeps repeating	Other Smart RF product in network in alarm	Check if there is a fire hazard and vacate property
Flashes once every 45 seconds	Double flashes at the same time as the red LED	Single chirp at the same time as the LED flash	Radio module low battery	Call Technical Support if within warranty. If not replace the W2-Module immediately
Flashes once every 45 seconds	Double flashes every 45 seconds, 20-25 seconds after the red LED	Single chirp at same time as the red LED flash	Radio module fault	Call Technical Support if within warranty. If not replace the W2-Module immediately