



FireAngel[®]

WBS-616 User Manual

Wi-Safe Remote Warning Handset

Part of the Wi-Safe Home Safety
System



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INTRODUCTION

Congratulations! You've made a wise investment in an innovative product and your personal safety. The **Wi-Safe Remote Warning Handset WBS-616** is one of a new generation of domestic life safety products from FireAngel, which combines the latest technology and innovative design to provide an aesthetically pleasing and effective contribution to your fire and carbon monoxide (CO) safety.

The Wi-Safe Remote Warning Handset can only be used in conjunction with Wi-Safe smoke and carbon monoxide alarms.

What is Wi-Safe?

Wi-Safe is a FireAngel term to describe the wireless, radio frequency (RF) communication signal from the Wi-Safe smoke or CO alarms to the Warning Handset, using the FireAngel unique encryption protocol.

Wi-Safe Product Range suitable for use with Wi-Safe Remote Warning Handset

- Wi-Safe Optical Smoke Alarm WSO-601
- Wi-Safe Ionisation Smoke Alarm WSI-601
- Wi-Safe 10 Year Optical Smoke Alarm WSO-610
- Wi-Safe 10 Year Ionisation Smoke Alarm WSI-610
- Wi-Safe Carbon Monoxide (CO) Alarm WCO-628
- Wi-Safe Base WEZ-602 for the Easy-Wire range of Smoke and Heat Alarms

The FireAngel range of products is constantly being expanded. Please visit www.fireangel.co.uk to find out about the latest additions to our product range.



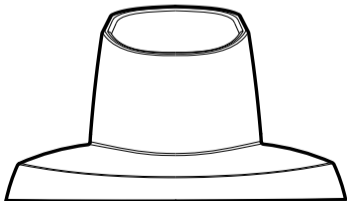
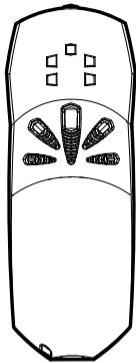
IMPORTANT: This user manual contains important information regarding the operation of your Warning Handset. If you are installing this product for use by others, you must leave this manual (or a copy of it) with the end user.

OVERVIEW OF THE FIREANGEL WI-SAFE HOME SAFETY SYSTEM

- Remote Warning Handset WBS-616
- Smoke Alarms, WSI-601, WSO-601, WSI-610, WSO-610
- Carbon Monoxide Alarm, WCO-628
- Base for Easy-Wire range of Smoke and Heat Alarms, WEZ-602
- Other future Wi-Safe products



All Wi-Safe products bear the
Wi-Safe logo



The FireAngel Wi-Safe Home Safety System consists of a Warning Handset to be used in conjunction with FireAngel Wi-Safe smoke or carbon monoxide (CO) alarms.

The smoke or CO alarms should be positioned in recommended locations specified in the user manuals accompanying those products. When your smoke or CO alarm triggers, it will go into alarm and will send a radio frequency signal to the Warning Handset. When the Warning Handset receives the signal from a smoke or CO alarm, it will sound a loud audible signal and the LED visual indicator at the top of the handset will flash to alert you.

The Warning Handset consists of two parts – a cradle with an AC mains adaptor which plugs into your wall socket, and a removable handset. When in alarm, if you lift the handset out of the cradle, the LED at the top of the handset will stop flashing and illuminates permanently, converting the handset into a torch to help you escape from

your home. At this point an audible locator sound will also be emitted from the warning handset.

The AC mains adaptor is rated at 230V 50Hz 0.075A input.

DEFINITIONS

RF

Radio frequency, method of communication

LED

Light emitting diode (all lights on the Warning Handset are LEDs)

AC Adaptor

Alternating current adaptor, plugs into mains supply

Encryption Protocol

A secure method of communication, isolating alarms within an individual system.

APPLICATION



WARNING: The Warning Handset is only designed to receive signals from FireAngel Wi-Safe smoke or CO alarms. It will not respond to other models or brands of smoke or fire alarm systems or other FireAngel non Wi-Safe smoke or CO alarms. The FireAngel Wi-Safe Home Safety System is not intended as a substitute for a complete fire alarm system, as specified in BS 5839-6: 2004.

Your Wi-Safe smoke or CO alarms communicate to the Wi-Safe Remote Warning Handset only and will not communicate to each other.

POSITIONING



WARNING: The Warning Handset will only warn of smoke or carbon monoxide if it receives a signal from a recognised active alarm.

In which room should the Warning Handset be installed?

- In a room where you sleep
- In a room where you are likely to fall asleep
- In a room where children spend time unsupervised

Where in the room should I place the Warning Handset?

- In a place near where you or family members are in the selected room.
- Close to a power socket where it can be easily plugged in and does not create a tripping hazard.
- Where any member of the family can easily reach it.

CAUTION: Do not put the Warning Handset

- Outside the building
- In a cupboard
- In a damp or humid area
- In an area where the temperature could regularly drop below -5°C or rise above 40°C

WHAT ARE THE LIMITATIONS?

Your Warning Handset requires a FireAngel Wi-Safe smoke or carbon monoxide (CO) alarm to trigger it by radio signal. The Warning Handset will not operate in isolation (on its own), with non Wi-Safe FireAngel smoke or CO alarms or any alarms made by other manufacturers.

Your Warning Handset is designed to alert you by sounding an alarm when it receives a signal from an activated smoke or CO alarm.

Your Warning Handset may not respond to a signal from a smoke or CO alarm if the alarm and the Warning Handset are too far apart; if there are obstructions that significantly reduce the signal (e.g. steel reinforcement in concrete); or if there are other electrical or electronic equipment that creates interference and obscures the signal.

Your Warning Handset will only alert you to

the triggering of a smoke or CO alarm if that alarm has been recognised (see 'Connecting to Wi-Safe Alarms' on page 11) by your Warning Handset. After initial installation and testing, the performance of the communication between the smoke or CO alarm and your Warning Handset may be compromised by changes in the building's structure, property or contents. Always test to ensure the entire Wi-Safe Home Safety System is still working after any changes to your building's structure, wiring, plumbing, heating or changes in position of major items of furniture (beds, sofas, shelving units, etc.).

We recommend that, as a minimum, you install a Warning Handset in each separate sleeping area of your property. In addition it is also recommended that you install a Warning Handset in any other area of your home where hearing your smoke or CO alarms may be difficult. Each Warning Handset works independently of all others and must be programmed individually to receive signals from all Wi-Safe alarms.

The Warning Handset will not respond and alert you of a smoke or fire situation without the triggering of a correctly programmed and operational FireAngel Wi-Safe smoke alarm. Also it will not respond and alert you that a high level carbon monoxide (CO) has been detected without the triggering of a correctly programmed and operational CO alarm.

The FireAngel Wi-Safe Home Safety System may not alarm before a fire causes damage, injury or death, as the smoke may not reach the smoke alarm in time. Examples include smoking in bed and violent gas explosions. The smoke alarm may not respond in a reasonable time if it is not installed in the best position or if obstacles, such as furniture or closed doors, are located between the smoke alarm and the fire.

The Wi-Safe Home Safety System may not alarm before a dangerous CO level causes illness, poisoning or death, as the CO may not reach the CO alarm in time. The CO alarm may not respond

in a reasonable time if it is not installed in the best position or if obstacles, such as closed doors, are located between the CO alarm and the source of CO.

The Warning Handset requires both a continuously powered AC electrical supply and internal battery for its normal operation. If the electrical supply fails or is removed, the unit will continue to operate on its back-up battery for up to 30 days. The Warning Handset will advise you of a low battery condition by emitting an audible “chirp” approximately once per minute. The low battery LED indicator will also flash yellow, once per minute.

WHEN THIS OCCURS YOU MUST REPLACE THE BACK-UP BATTERY TO THE UNIT WITHIN 7 DAYS TO MAINTAIN OPERATION.

The Warning Handset is designed to alert you with a combination of an audible alarm and visual indication. Closed doors, walls and high ambient noise levels will reduce this distance. Temporary

or permanently impaired hearing may result in the Warning Handset not being heard. Stereos, traffic and other loud sources may also prevent the Warning Handset from being heard. Heavy sleepers and residents under the influence of alcohol or drugs may also not hear or respond to the Warning Handset. Test and check that you can hear the Warning Handset in all circumstances.

The Warning Handset employs the latest technology and is independently tested as being compliant with the applicable clauses of relevant British and European Standards. However, as with any electronic product, it might fail and may not produce an alarm within sufficient time to alert you of the danger and provide adequate time for your escape. In order to maximize your level of safety, always test your Warning Handset by testing all other alarms in the system every week to ensure it is in full working order and that the radio frequency (RF) link between the alarms had not been compromised. (See “Testing” on page 13).

NOTE: The Warning Handset, smoke and CO alarms should not be considered as a substitute for life or property insurance. The Handset should be replaced immediately in the event of failure, and replaced every ten years.

Although the Warning Handset may be of some assistance to alert someone with mild hearing impairment, it is not designed to be an alarm device for deaf and hard of hearing people. Deaf and hard of hearing people should seek advice for the installation of a device certified to BS 5446-3: 2005.

CAUTION: Your Warning Handset is a sealed AC electrical device, and no attempt should be made to open the main casing. Attempting to open the main case will:

- Damage your Warning Handset
- Possibly result in exposure to a potentially lethal electric shock
- Impair its operation

- Invalidate your warranty



DANGER: Under no circumstances should this product be immersed in water, or used in the presence of water.



WARNING: The Warning Handset is intended for operation only on 230V AC, 50 Hz circuits.

HOW TO INSTALL YOUR WARNING HANDSET

I Preparation

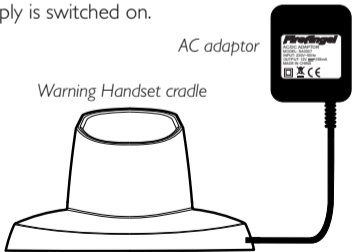
IMPORTANT: Make sure you have read and understood this entire manual before installing your Warning Handset.

Ensure that all smoke alarms and carbon monoxide (CO) alarms to be used are compatible with your Warning Handset, look for the Wi-Safe symbol

(see “Application”, page 4). All smoke alarms and CO alarms must be installed, tested and working correctly as per the instructions in their respective user manuals, and the Warning Handset should be positioned as per “Positioning” (page 5), before installing the handset.

2 Installation

Place the cradle on a suitable flat surface, bedside table for example, where the Warning Handset cannot be easily knocked or slide off. Plug the wall adaptor into a 230V AC supply and ensure the supply is switched on.



Fitting the Battery

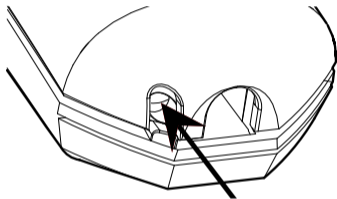
Your Warning Handset requires a 9V battery as well as an AC supply. The battery provides power to the Handset when it has been removed from its cradle, and also provides backup power for the Warning Handset when AC power has been disconnected or has failed.



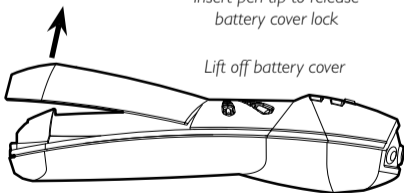
WARNING: Your Warning Handset is supplied with the battery already in the battery compartment BUT it is protected by a clear protective wrapper. The battery must be removed from the Warning Handset and the clear protective wrapper should be removed before re-inserting the battery.

- i To remove the battery cover, firstly insert the tip of a ball point pen or a similar object into the hole then lift up to release the battery cover
- ii Remove the battery cover from the Warning Handset by lifting it at the bottom and sliding down.

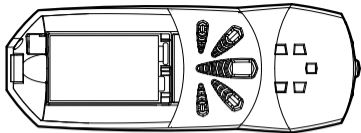
- iii Insert the 9 volt alkaline battery provided. If replacing an existing battery, then only use batteries listed on page 18. Ensure the battery is fitted the correct way round.
- iv Replace the battery cover, simply clip it into place.



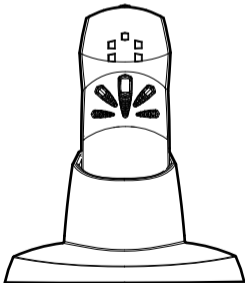
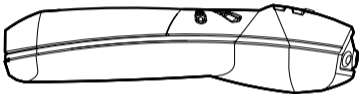
Insert pen tip to release battery cover lock



Lift off battery cover



Insert battery and replace cover



Insert handset into cradle

- ▼ Insert the warning handset into the cradle
The green “power” LED should illuminate continuously to show that the AC power supply is connected.

3 Connecting to Wi-Safe Alarms

Your Warning Handset is designed to respond to smoke and carbon monoxide alarms having a Wi-Safe interconnect function. The Warning Handset will only respond to alarms that it has been set up to recognise. This prevents components in your Wi-Safe Home Safety System interfering with other Wi-Safe systems and other wireless products using RF technology nearer your home.

The Warning Handset must have been set up in accordance with points 1 ‘Preparation’ and 2 ‘Installation’ before carrying out this procedure.

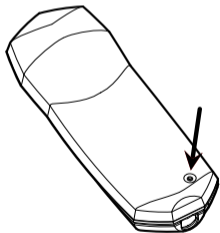
Connect and Install Wi-Safe Smoke Alarm and Carbon Monoxide Alarms to the Warning Handset

The alarm(s) to be connected must be:

- i FireAngel Wi-Safe type(s), compatible with the Wi-Safe Remote Warning Handset WBS-616
- ii Correctly fitted and installed
- iii Tested and working

Read the manual for each alarm thoroughly to ensure that these requirements are met.

Connect



Remove the Wi-Safe Remote Warning Handset from its cradle. **It will give an audible warning to indicate that it has been removed** (this will stop automatically after a few seconds). Using the narrow tip of a pen

or an open paper clip push and hold the learn button (see illustration). When holding the button,

the white light will flash. Wait until this has flashed at least three times before releasing the button. On releasing the button the LEDs on the front of the Handset will illuminate one after the other in a clockwise rotation. This will continue until the unit is returned to its cradle or times out if no alarms are connected to it (within a few minutes). This shows that your Warning Handset is waiting for alarm signals to be learnt. An audible warning will not be given when the Warning Handset is in this mode.

Take the handset to a Wi-Safe alarm that is to be connected. Test the alarm as per the user instructions for that particular model. Note: For CO alarms only the horn and battery test is required, you do not need to carry out the detailed sensor test. When the alarm is self testing, the white torch light at the end of the handset should illuminate briefly once to indicate that the handset recognises the signal from the alarm.

Take the Warning Handset to the other Wi-Safe alarms and repeat the procedure, until all alarms

have been connected. Replace the Warning Handset in the cradle; all lights except the green “power” light will be extinguished. The Warning Handset is now in its normal “standby” mode, i.e. waiting to respond to alarms that have been connected to it.

Once your Warning Handset has been connected to your Wi-Safe alarms it is crucial you test that the Handset receives a signal from all the alarms in the system in the position where the Handset will be sited. See section 4 ‘Testing’.



IMPORTANT: If you move the Handset to another location you should check that it still receives a signal from all the alarms in the system, by retesting each alarm.

NOTES

i If the Warning Handset is left out of its cradle for more than 4 minutes without receiving any signals, when in learn mode, the lights will extinguish and no more signals will be learnt.

Replace the remote in its cradle. If more alarms are to be learnt, repeat the entire “connect” procedure.

- ii If an alarm has already been learnt by your Warning Handset, repeating the process will not give a response.
- iii The Warning Handset will learn any compatible, working FireAngel Wi-Safe alarm within range. It is very unlikely that one of your neighbours will be carrying out the same procedure at the same time.
- iv Additional Wi-Safe alarms can be added to your system at any time. This will not affect the communication between the Handset and any alarms that have already been learnt into the system.
- v Your Warning Handset can be connected to 20 different Wi-Safe alarms.
- vi You can have more than one Warning Handset in your Wi-Safe system but each Warning Handset must be individually connected to each alarm.

4 Testing

Your Warning Handset should be tested whenever an alarm is added to the system. Each alarm in the system should be tested at least once per week, this will test the Handset automatically.

Testing is simple. Ensure that your Warning Handset is located in its most suitable position (refer to section on “Positioning”, page 5) with the handset fitted into its cradle, with AC power connected.

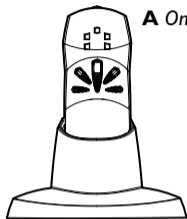
Go to one of the connected alarms in the Wi-Safe Safety System and carry out a self test. Go back to the handset. The appropriate light on the handset (“smoke” or “carbon monoxide”) should flash rapidly, as should the white LEDs at the top of the handset. An audible signal should be emitted that corresponds to “smoke” (three bursts between a short delay) or “carbon monoxide” (four quick bursts between delays of several seconds). Remove the Warning Handset from its cradle. The

torch will switch fully on and the full alarm sound will be replaced by the “locator” audible signal, which is a burst of 4 rapid chirps followed by a 2 second delay repeated continuously. Wait for 5 seconds, then replace the Warning Handset in the cradle. If the Warning Handset is replaced too soon it may pick up the repeat signal and go into alarm again, if this happens remove the Handset from the cradle again and wait for more than 5 seconds. The Handset should then be replaced in the cradle. All lights should extinguish except the green “power” light.

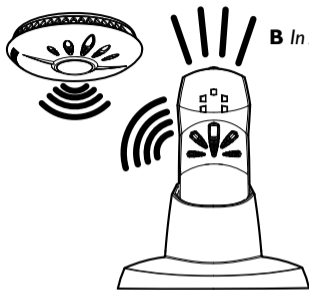
Repeat this procedure for every connected Wi-Safe alarm.

NOTE: The above test procedures should be carried out both *with* and *without* the AC power turned on.

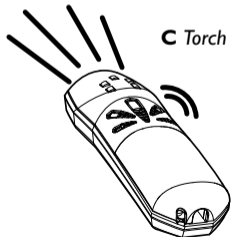
OPERATION



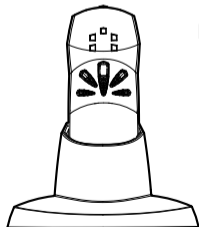
A *On Standby*



B *In Alarm*



C *Torch and Audible Locator*



D *Reset*

5 Warning Handset Basic Function

A On Standby

The Warning Handset should normally be fitted into its cradle and connected to an AC supply. The green “power” LED will be permanently illuminated.

B In Alarm

When a Wi-Safe smoke or carbon monoxide alarm goes into “alarm” mode, the white LEDs on the top of the Warning Handset will flash rapidly and the red LED next to “smoke” or “carbon monoxide” will illuminate to indicate the type of alarm signal that the handset is receiving. The Warning Handset also generates an audible alarm which is different for smoke and CO (“smoke” - repeated cycle of three blasts then a short delay, “carbon monoxide” - repeated cycle of four quick blasts then a delay of several seconds).

If both smoke and CO alarms go into alarm mode, both “smoke” and “carbon monoxide” red LEDs will appear on the Warning Handset. The audible alarm from the Warning Handset will be of the “smoke” pattern only.

NOTE: The Warning Handset will only respond to alarms that are of a compatible type in the FireAngel Wi-Safe range and have been learnt with the Warning Handset.

C Torch and Audible Locator

Lifting the Warning Handset from its cradle will cause the white LED at the end of the Warning Handset to stop flashing and illuminate continuously as a torch. This function should assist safe escape from the residence. The sound emitted from the Handset also changes, from an alarm signal to a distinctive “locator” pattern (a burst of 4 very rapid loud “chirps” every few seconds) that assists emergency services in locating its position.

NOTE: This function depends on a working battery being fitted in the Warning Handset. The function will not operate if the handset has not reacted to a remote Wi-Safe connected alarm.

D Reset

When the alarm condition no longer exists, the Warning Handset can be reset by replacing the remote in its cradle. It is now in its “standby” mode.

6 Removal of AC (Mains) Power

If AC (mains) power is removed (through unplugging the wall adaptor; switching off the ac supply or as a result of power outage), the green “power” light will no longer illuminate continuously, but instead flash once per minute.

After 6 hours, if ac power has not been restored, the Warning Handset will also “chirp” once per

minute as a warning.

Without AC power the Warning Handset is powered by its internal battery. To ensure this battery is not prematurely discharged, the AC power must be restored as soon as possible. A battery with full capacity will power the Warning Handset for a total of 4 weeks.

If the warning handset has been removed from the cradle or power has been removed for an extended period (more than 24 hours) we recommend replacing the battery.

The 6 hour delay is provided to prevent nuisance “chirping” during occasional power outages.

7 Removal of the Warning Handset

If the Warning Handset is lifted out of its cradle when there is no alarm condition, it will give a warning; 10 loud blasts, repeated again after one minute. Following this initial warning the Handset

will emit a single chirp once every minute. The Warning Handset should be replaced in the cradle as soon as possible to prevent premature discharge of the internal battery. This warning feature also helps to reduce the risk of the Warning Handset being removed from the area undetected (for example, by a child).

The Warning Handset will still respond to an alarm condition if left out of its cradle, provided there is sufficient battery power remaining. When an alarm signal is received, the Handset will initially react as per step “**B**” of “basic function” (see page 16). If the alarm condition persists for more than 30 seconds, the remote will automatically become a torch and locator (step **C** of “Basic Function”).

8 Battery Replacement

The battery must be in good condition to operate the Warning Handset reliably. If the low battery LED flashes at the same that a warning chirp is given (once per minute), replace the battery

immediately.

In all circumstances the battery must also be replaced at least once per year.

To replace the battery, remove the Warning Handset from its cradle. The Handset will emit an audible warning to indicate that it has been removed.

Remove the battery cover and replace the battery as per the instructions in “Fitting the Battery”. (See page 10)

Use only the following batteries:

Duracell Ultra, Duracell MN 1604, Energizer Ultra+, Energizer 522 or Gold Peak 1604A 9V, ULTRALIFE U9VL Lithium

9 Signal Failure

Operation of the Warning Handset depends on receiving a radio frequency (RF) signal from Wi-Safe alarms in order to respond to an alarm condition. Nearby electronic equipment may,

in extreme cases, interfere with these signals, preventing the Warning Handset from reacting to an alarm condition.

The Warning Handset monitors signals in the area to check if this is likely to be a problem. If interference is detected, the “signal failure” LED flashes yellow once per minute and the handset will chirp once per minute as a warning.

If this warning is given, try moving the Warning Handset to a different position in the room or move nearby electronic equipment out of the way. If this doesn't cure the problem, try switching off different items of electronic equipment until the cause is found.

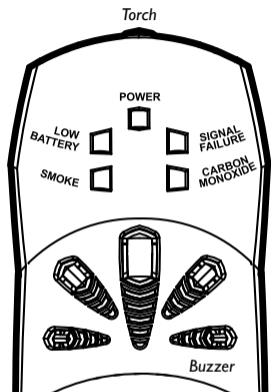
WARNING: Do not switch off or disable any life critical or safety equipment.

10 System Integrity Check

It is important that, when any changes are made to the system or your home, you check that all the elements of the Wi-Safe system are still communicating. When any of the following occur, check the communication between all the alarms in the system and the Warning Handset(s). See Section 4 'Testing' on page 14.

- Changing the battery in the Handset
- Changing the battery in any alarm in the system
- Changing the layout of your house (ie. structural changes, moving large items of furniture, wiring changes, major decorative alterations, adding large metal constructions)
- Installation of electronic equipment

II Audible and Visual Indicators



NOTE: The Handset will not indicate if there is a fault with other alarms in the system. Individual alarms will have their own fault indicator.

Power

Green LED permanently illuminated. In normal conditions (Warning Handset plugged into cradle, AC power connected), this is continuously illuminated to indicate that the Warning Handset is powered by the AC power source.

If there is no AC power available (the Warning Handset has been removed from its cradle, or the AC power has dropped out, been switched off or disconnected), this flashes briefly once a minute to indicate that the Warning Handset is powered by the battery.

Torch

Bright white LEDs. These flash rapidly to indicate an alarm condition, and illuminate continuously when the handset is removed and is in torch/



NOTE: The Warning Handset depends on correct operation of connected alarms. If a signal is not received from an alarm for any reason (for example, a fault in the alarm or no battery fitted), the Warning Handset will not respond or detect the fault.

locator mode.

The torch also flashes on briefly when the Warning Handset is in learn mode (see “Connecting to Wi-Safe alarms” (page 11)) and has just recognised a new alarm.

Smoke

Red LED. Continuous red light when a smoke alarm in the system is in “alarm” mode. (See “Basic Function” section).

Carbon Monoxide

Red LED. Continuous red light when a carbon monoxide alarm in the system is in “alarm” mode. (See “Basic Function” section).

Low Battery

Yellow LED. Flashes once per minute when the internal battery needs replacing. (See “Battery Replacement” function).

Signal Failure

Yellow LED. Flashes once per minute to indicate that there may be a problem with the signal between the alarm(s) and Warning Handset.

Buzzer

High volume audible warning device. Different and distinctive sound patterns are generated by the buzzer to warn of different conditions:

Signal Failure - 1 chirp per minute, at the same time as the “Signal Failure” light.

Low Battery - 1 chirp per minute, at the same time as the “low battery” light.

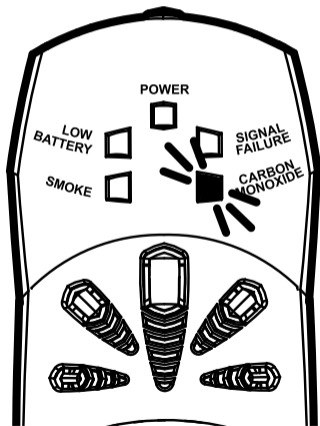
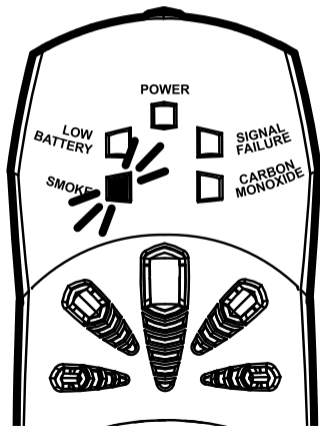
Carbon Monoxide Alarm - 4 rapid blasts then a 5 second delay (repeated continuously).

Smoke Alarm - 3 blasts then a short delay (repeated continuously).

Locator - A burst of 4 rapid loud chirps then a 2 second delay (repeated continuously).

Warning Handset removed from cradle - 10 blasts, one minute delay, another 10 blasts, thereafter, one chirp per minute.

WHAT TO DO IF YOUR WARNING HANDSET ALARMS





CAUTION: In all circumstances assume your Warning Handset is responding to a real alarm situation that has been triggered by either a smoke alarm or carbon monoxide alarm.

STAY CALM.

PROCEED QUICKLY BUT WITH EXTREME CAUTION – FIRSTLY YOU MUST DETERMINE WHY YOUR WI-SAFE WARNING HANDSET HAS BEEN TRIGGERED.

If the Warning Handset has been triggered by a remote signal from a smoke alarm the red “Smoke” light will appear. If the Warning Handset has been triggered by a remote signal from a carbon monoxide (CO) alarm the red “Carbon Monoxide” light will appear.

If both lights are flashing, then both types of alarm (smoke and carbon monoxide (CO) have triggered the Warning Handset.

I What to do in the Event of a Smoke Alarm Sounding



Assume a Fire!

What to do in Case of Fire in your Home

If you have made a family escape plan and practiced it with your family, you have increased their chances of escaping safely. Go over the following rules with your children each time you have a fire drill. This will help everyone remember them in case of a real emergency.

- Don't panic; stay calm. Your safe escape may depend on thinking clearly and remembering what you have practiced.
- Notify every member in the residence of the fire.
- Get out of the house as quickly as possible. Follow a planned escape route. Do not stop to collect anything or to get dressed.

- Feel the doors to see if they are hot. If they are hot, do not open them - use an alternative escape route.
- Stay close to the floor. Smoke and hot gases rise.
- Cover your nose and mouth with a cloth (wet if possible). Take short, shallow breaths.
- Keep doors and windows closed. Open them only if you have to in order to escape.
- Meet at your planned meeting place after leaving the house. Carry out a headcount.
- Call the fire service on 999 as soon as possible from outside your house. If possible use a neighbour's phone or call box rather than a mobile phone (as the location can be traced from the number if the line is lost).
- Give the address and your name.
- Never go back inside the building until a member of the fire service has told you it is safe to do so.

If after proceeding with extreme caution you have been able to confirm that your Warning Handset

was triggered by a nuisance alarm which may occur from time to time from cooking or other non emergency situations you should silence the smoke alarm that has been triggered and then replace the Warning Handset in its cradle. It is important to practice escape plans and show everyone in the house, including children, what to do with the handset if it enters into alarm.

Contact your local fire service. They will give you more ideas about how to make your home safer from fires and how to plan your family's escape.

2 What to do In the Event of a Carbon Monoxide Alarm Sounding



Assume carbon monoxide has been detected in your home!

Immediately locate your carbon monoxide detector to determine the level of alarm being

indicated.

WARNING: An alarm condition indicates that abnormally high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm, further exposure can be fatal. **Immediately check residents for symptoms of carbon monoxide (CO) poisoning, and contact the proper authorities to resolve all CO problems.**

NEVER IGNORE A LOW-LEVEL OR HIGH-LEVEL ALARM.

Ensure that you know what actions to take in the event of both high and low-level alarms.

What To Do During A High-Level Alarm

- Keep calm and open the doors and windows to ventilate.
- Turn off all appliances that are potential sources of CO when possible, and stop using the appliance. These may include gas and wood-burning fireplaces, all gas appliances, and barbecues.

- Evacuate the property leaving the doors and windows open.
- Ring your gas or other fuel supplier on their emergency number; keep the number in a prominent place.

Write your fuel supplier's emergency number here;

- Do not re-enter the property until the alarm has stopped.
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning, (headache, nausea), and advise that carbon monoxide poisoning is suspected.
- Do not use the appliance again until it has been checked by an expert. In the case of gas appliances this must be a CORGI registered installer.
- Your alarm will silence when the ventilation has allowed the CO level in your home to drop to

an acceptable level.

What To Do During A Low-Level Warning

- Open all doors and windows to ventilate.
- Turn off all appliances that are potential sources of CO when possible, and stop using the appliance. These may include gas and wood-burning fireplaces, all gas appliances, and barbecues.
- Note the reading on the display.
- Silence the alarm and turn off the low-level icon by pressing the Test/Reset button.
- Do not use the appliance again until it has been checked by an expert. In the case of gas appliances this must be a CORGI registered installer.
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected.

It is important to practice escape plans and show everyone in the house, including children, what to do with the handset if it enters into alarm.

REPAIR



DO NOT attempt to repair your Warning Handset.

If your Warning Handset is not operating properly, see "Troubleshooting Chart" on pages **28 & 29**. If you cannot solve the problem, please call the FireAngel Technical Support Line for advice on **024 7623 6663** or visit the 'Support' section on our website **www.fireangel.co.uk**

If your Warning Handset is no longer under warranty, replace it immediately. Your Warning Handset should be replaced after 10 years.

CAUTION: Your Warning Handset is a sealed AC electrical device and no attempt should be made to open the case. Attempting to open the case will:

- Damage your Warning Handset
- Impair its operation

- Possibly result in exposure to a potentially lethal electric shock
- Invalidate your warranty

TROUBLESHOOTING

Problem	Solution
<i>Power indicator light is not illuminated when the Warning Handset is in the cradle.</i>	<p>Check that the wall adaptor is plugged into an AC supply and the AC supply is switched on.</p> <p>Ensure the Warning Handset is pushed fully into its cradle.</p>
<i>While connecting an alarm, the Warning Handset does not respond.</i>	<p>Make sure the alarm is Wi-Safe compatible and is working correctly.</p> <p>Ensure the handset is in its "learn" mode (see "How to Install your Warning Handset - connect" page 12).</p> <p>The alarm may already be recognised by the Warning Handset. Return the Handset to the cradle and carry out a self test on the alarm (see "Testing" on Page 14).</p>
<i>The Warning Handset "chirps" and the "low battery" light flashes once per minute.</i>	<p>The battery is low and must be replaced. See "Battery Replacement", page 18.</p>
<i>The Warning Handset "chirps" and the "low battery" light does NOT flash.</i>	<p>The Power LED will also be flashing, meaning that the Handset is not receiving power. Ensure the Handset is pushed fully into its cradle and the AC power is switched on at the wall socket.</p>

<p><i>The Warning Handset “chirps” and the “Signal Failure” light flashes once per minute.</i></p>	<p>Nearby electrical or electronic equipment is interfering with the Warning Handset. Find the cause of the interference by moving nearby equipment away from the Warning Handset or switching it off for a short time. (WARNING: Do not switch off safety critical or life support equipment). Ensure that the interfering equipment is kept away from the Warning Handset if found to be the cause of a signal failure or move the handset to an alternative location.</p>
<p><i>The Warning Handset does not respond to an alarm that is being tested.</i></p>	<p>Ensure that the smoke/CO alarm is working and does not have a low battery.</p> <p>Check that the alarm is compatible (check for the Wi-Safe logo) and has been connected to the Warning Handset (see “How to Install your Warning Handset - connect”, page 12).</p> <p>Check to see if the “Signal failure” light is flashing (see above).</p> <p>Move the Warning Handset closer to the alarm and re-test. If it responds, the Warning Handset was positioned too far away from the alarm or something was blocking the signal. See “Positioning”, page 5</p>

DISPOSAL



Waste electrical products should not be disposed of with household waste.

Please recycle where facilities exist. Check with your local authority, retailer or manufacturer for recycling/ disposal advice as regional variations apply.

The battery should be disconnected before disposal. You can also return your carbon Warning Handset for disposal. For return address see the section on Returns. Please include a note confirming the product is being returned for disposal.

5 YEAR LIMITED WARRANTY INFORMATION

Warranty Coverage

FireAngel Ltd warrants to the original purchaser that its enclosed Wi-Safe Remote Warning Handset WBS-616 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 Ltd hereby warrants that during the 5 (five) year period commencing from the date of purchase FireAngel Ltd, at its discretion, agrees to replace the unit free of charge. The warranty on any replacement Wi-Safe Warning Handset, will last for the remainder of the period of the original warranty in respect of the alarm originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product. FireAngel Ltd reserves the right to offer an alternative product similar to that being replaced if the original model is no longer



WARNING: DO NOT ATTEMPT TO OPEN.



WARNING: DO NOT BURN.

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.

Warranty Disclaimers

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 Ltd.'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 Ltd. will not recognise any changes to this warranty by third parties. FireAngel Ltd. shall not be liable for any incidental or consequential damages caused by the breach of any express 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 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

We recommend that you contact the FireAngel Technical Support Line in the first instance on **024 7623 6663 (1-800 523171 in Eire)** or via e-mail: **technicalsupport@fireangel.co.uk** as we may be able to remedy the problem quickly over the phone (this is to prevent unnecessary returns that take a longer time to process). If there is a fault that we are unable to resolve then our technical support engineer will issue you with a returns authority number so that your product can be returned for testing.

To return your Warning Handset under warranty, send it suitably packed and disabled (this will be explained by the member of the FireAngel

technical support team) with postage prepaid; a note indicating the returns authority number and describing the nature of the difficulty, with proof of date of purchase to:

FireAngel Limited
The TechnoCentre
Puma Way
Coventry CV1 2TT
England

PRODUCTS IN THE WI-SAFE RANGE

Compatible with the Wi-Safe Remote Warning Handset WBS-616

- Wi-Safe Optical Smoke Alarm WSO-601
- Wi-Safe Ionisation Smoke Alarm WSI-601
- Wi-Safe 10Year Optical Smoke Alarm WSO-610
- Wi-Safe 10Year Ionisation Smoke Alarm WSI-610
- Wi-Safe Carbon Monoxide (CO) Alarm WCO-628
- Wi-Safe Base WEZ-602 for the Easy-Wire range of Smoke and Heat Alarms



FireAngel[®]

Technical Support Line

024 7623 6663 (1-800 523 171 in Eire)

E-mail:

technicalsupport@fireangel.co.uk

Web:

www.fireangel.co.uk