

FireAngel® STOVE GUARD SGEL-SN-1

MAIN MANUAL

Installation and Operating Instructions



1

INSTALLATION P. 4-13



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USER GUIDE P. 14-23



3

TECHNICAL SPECIFICATIONS
P. 24-28



For indoor use only.
Do not use in a professional kitchen.
The Control Unit must be installed by an authorised electrician.

SGEL-SN-1-UserManual-A1



Thank you for choosing FireAngel Stove Guard!

Stove Guard SGEL-SN-1 is a safety product for domestic kitchens. The Stove Guard consists of an Intelligent Heat Sensor that monitors the cooker, and a Control Unit that cuts the power if a dangerous situation occurs. Automatic fault diagnosis prevents the use of the cooker if the Sensor is removed. Ensure to read this manual prior to commencing installation. Installers must leave the manual with the end user for future reference.



Safety rules

Stove Guard does not prevent all potentially dangerous situations, but it makes the use of the cooker significantly safer.

Never leave the cooker unattended.

Stove Guard can be used for all electric cookers up to 90 cm wide and with a maximum rating of 32 Amps.



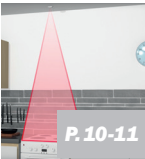
Always check compliance with local regulations.

- For indoor use only.
 - Do not use in a professional kitchen.
 - Do not hold the Heat Sensor close to the ear. It can cause hearing damage when in alarm or test mode.
 - Do not leave children alone with the product or any of its parts or packaging. There is a risk of choking.
 - Do not disassemble the product.
 - Do not immerse the Sensor in water.
- Stove Guard will not emit an alarm if the temperature of the cooker is too low to identify a dangerous situation, or if the cooker has an automatic limitation of temperature increase.
 - The stove guard will not completely isolate the cooker. It must never be used to turn off the cooker's power supply for service/repair.
 - Do not short-circuit, charge, open or heat the batteries. There is a risk of explosion.

The operating instructions, accessories and stickers must accompany the product. Follow the safety guidance for safe use of Stove Guard. If you have questions about the product, ask a specialist or refer to FireAngel.co.uk



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1

INSTALLATION

INSTALLATION OF THE INTELLIGENT HEAT SENSOR

The best place to install the Intelligent Heat Sensor is horizontally, on the cooker hood, directly above the centre of the cooker hob. The Sensor can also be mounted on a wall with an angle bracket or on the ceiling. One Sensor covers a cooker up to 90 cm wide. Follow these instructions for correct installation.

Safety

To ensure correct operation and performance, it is crucial the Sensor is properly positioned and the sensitivity is configured to the appropriate setting.

Sensitivity

The Heat Sensor's sensitivity is factory-set for horizontal installations 45-60 cm above the cooker.

The sensitivity must be adjusted if the installations height differs from the factory setting. See page 18.

INSTALLATION LOCATIONS

RECOMMENDED

Installation under cooker hood



P. 6-7

OPTIONAL

Wall mounting



P. 8-9

Ceiling mounting



P. 10-11

Mounting bracket SAI500-ABS required for angled ceiling and wall installations - available separately. For ceiling installations, the supplied IR lens extension (E) must also be fitted. See page 10.

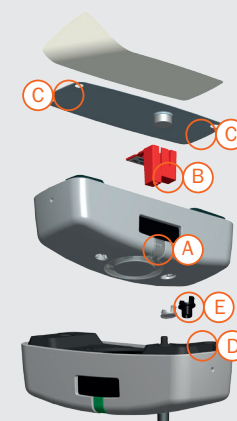
Correct installation of the Heat Sensor

The sensor should be fitted onto the mounting plate securely. Ensure the LED (A) always faces out towards the user.

Remove the red battery disconnection piece (B) and place the sensor parallel to the mounting plate.

Align the angled edges (C) of the mounting plate with the corresponding slots on the back of the sensor (D).

For ceiling installations the additional IR lens extension (E) must also be fitted.



Note! Incorrect positioning and fitting of the sensor will directly affect the operation and performance of both Stove Guard and the cooker.

Installing Stove Guard

To install correctly, follow the instructions.



STEP 1:

Installation of the Intelligent Heat Sensor p. 5-11

STEP 2:

Installation of the Control Unit p. 12

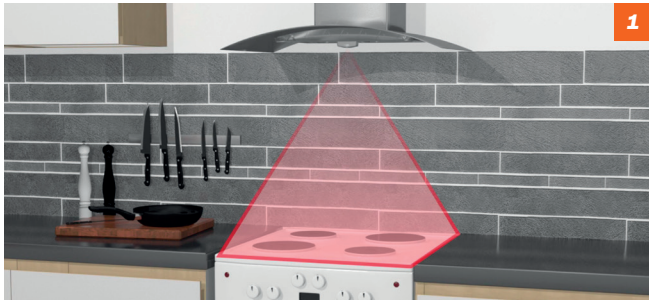
STEP 3:

Function test p. 13



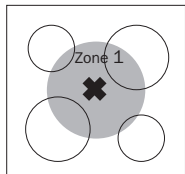
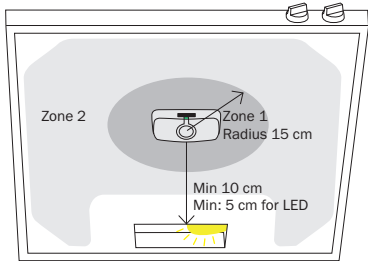
HORIZONTAL INSTALLATION UNDER COOKER HOOD

Allow the Heat Sensor to reach room temperature before use. The power to the cooker must be switched off (at the consumer unit). See the table below for the mounting location and follow instructions 1-4.



Select the mounting location

Measure the installation height. The Heat Sensor should be centred above the cooker, preferably within Zone 1 (see the diagram below). It can be attached to the grease filter. It is important to ensure the minimum distance from the light underneath the hood is 10 cm (5 cm for LED). Ensure the surface is clean and dry before mounting.



Zone 1 is immediately above the middle of the cooker plates. Max 15 cm from the centre.



Mount the Heat Sensor

Attach the mounting plate while the Sensor is on it.

Carefully remove the protective film from the mounting plate. Attach the Sensor with the LED (A) facing the user.

Remove the Sensor (the Sensor will "beep" once). Press the mounting plate firmly against the surface to ensure the adhesive tape is firmly attached.

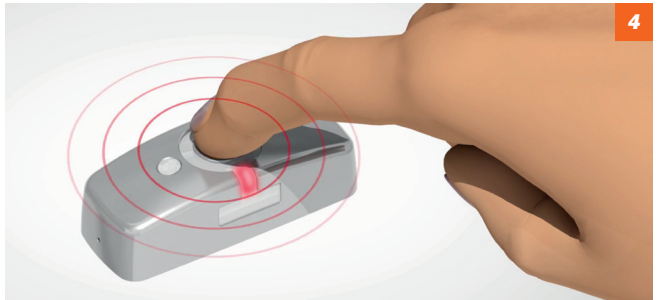


Starting the Sensor

Remove the red battery disconnection piece (B) and replace the Sensor on the mounting plate.


Press in the Sensor cover (LED (A) flashes green).

Keep the battery disconnection piece for future use.



Check installation height

Set the Sensor's sensitivity level according to the mounting height (as described in the table) by evenly pressing the Sensor's cover. The factory setting for the sensor's sensitivity level is 45-60 cm above the cooker. (Please refer to the table underneath together with the information on page 18, alternatively watch the film on sensitivity configuration).

DISTANCE FROM COOKER TO SENSOR	MOUNTING LOCATION		SENSITIVITY LEVEL CONFIGURATION	
	0-60 cm wide cooker	61-90 cm wide cooker	Sensitivity	Acknowledgement "beep(s)"
81 - 100 cm *	Zone 1 and 2	Zone 1	3 presses	● ● ●
76 - 80 cm	Zone 1 Zone 2 (Note! See EN requirement, page 22, point 4)	Zone 1 (Note! See EN requirement, page 22, point 4)	4 presses	● ● ● ●
71 - 75 cm			5 presses	● ● ● ● ●
65 - 70 cm			6 presses	● ● ● ● ● ●
61 - 64 cm			7 presses	● ● ● ● ● ● ●
45 - 60 cm Factory setting			8 presses	● ● ● ● ● ● ● ●
			 Watch the film on sensitivity configuration (48 sec.) URL: http://goo.gl/eS3oZF	

* For horizontal mounting under the cooker hood 81-100 cm above the cooker, the Sensor will not in all cases meet all EN standard requirements.

Please note: the sensitivity level of the Sensor is confirmed by the appropriate sound pattern sequence only and not the LED flashes.



WALL MOUNTING WITH BRACKET

Allow the Heat Sensor to reach room temperature before use.
See the table below and follow instructions 1-5.



Select the required mounting location and mount the bracket

Wall mounting requires a bracket (SAI500-ABS), sold separately. The bracket is fastened on the wall using adhesive tape or screws. Ensure the surface is clean and dry.

See the mounting instructions in the bracket package. Make sure that the bracket is positioned correctly and that the angle is adjusted, so that the Sensor faces towards the centre of the cooker.

Mounting height on the wall above the cooker

Max 90 cm wide cooker.

Recommended: 80 cm
Alternatively: 65-79 cm*

See mounting instructions provided separately with the bracket.

* For wall mounting with a distance less than 80cm between the sensor and the cooker, the sensor will not in all cases meet all EN standard requirements.



Mount the Heat Sensor

Attach the mounting plate while the Sensor is attached to it.

Remove the protective film from the mounting plate. Attach Heat Sensor with the LED (A) facing the user.

Remove the Sensor (the Sensor "beeps" once). Press the mounting plate firmly against the surface to ensure the adhesive tape is firmly attached.

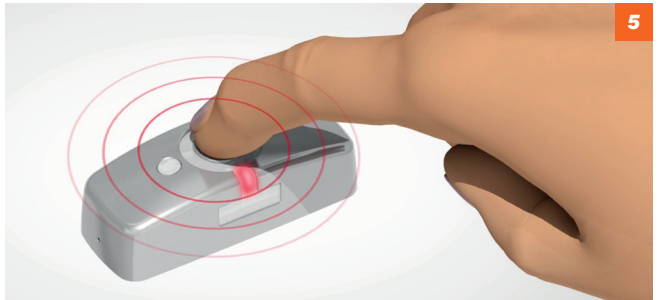


Starting the Sensor

Remove the red battery disconnection piece (B) and return Heat Sensor on the mounting plate.

Press the Heat Sensor cover (LED (A) flashes green).


Keep the battery disconnection piece for future use.



Set sensitivity level

Set the Sensor's sensitivity level according to the mounting height (as described in the table) by evenly pressing the Sensor's cover. The factory setting for the sensor's sensitivity level is 45-60 cm above the cooker. (Please refer to the table underneath together with the information on page 18, alternatively watch the film on sensitivity configuration).

DISTANCE FROM COOKER TO SENSOR	SENSITIVITY LEVEL CONFIGURATION	
	Sensitivity	Acknowledgement "beep(s)"
70-80 cm *	3 presses	•••
65-69 cm *	4 presses	••••



Watch the film on sensitivity configuration (48 sec.)
 URL: <http://goo.gl/eS3oZF>

* 80cm recommended. For wall mounting with a distance less than 80cm between the sensor and the cooker, the sensor will not in all cases meet all EN standard requirements.

Please note: the sensitivity level of the Sensor is confirmed by the appropriate sound pattern sequence only and not the LED flashes.

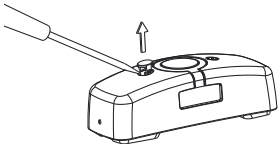


See the table below for the mounting location and follow instructions 1-5.



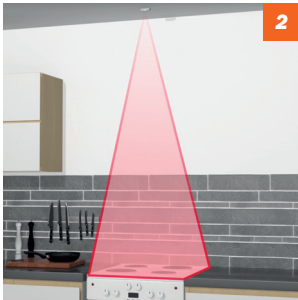
Replace lens

Carefully lift the lens with a screwdriver. Press down the IR lens extension (included) as shown in the picture. The extension should point directly upwards at an angle of 90°. If the extension moves around, check that it has been inserted the right way round.



PLEASE NOTE:
Once Stove Guard is activated the system will reset automatically provided the cooker is switched off.*

*Cookers with mechanical controls will need switching off manually.

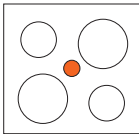


Select the mounting location

The sensor must be placed directly above the cooker or at an angle with a mounting bracket (sold separately). Use a weight and a string to ensure the IR lens on the front of the alarm is directly pointing to the centre of the cooker. Ensure the surface is clean and dry.

Recommended position

The recommended position is immediately above the middle of the cooker plates.



Mount the Heat Sensor

Attach the mounting plate while the Sensor is on it.

Remove the protective from the mounting plate. Attach the Sensor with the LED (A) facing the user.

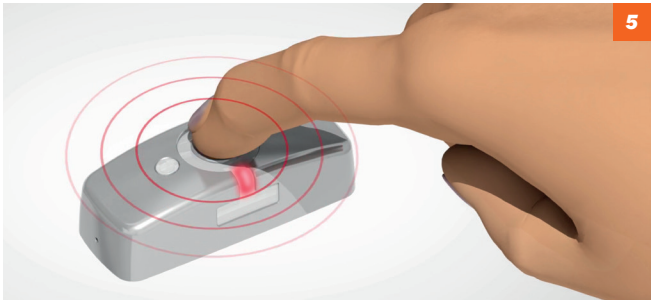
Remove the Sensor (the Sensor "beeps" ● once). Press the mounting plate firmly against the surface to ensure the adhesive tape is firmly attached.



Starting the Sensor

Remove the red battery disconnection piece (B) and replace the Sensor on the mounting plate. Press the Sensor cover (LED (A) flashes green).

Keep the battery disconnection piece for future use.



Set sensitivity level

Set the Sensor's sensitivity level according to the mounting height (as described in the table) by evenly pressing the Sensor's cover. The factory setting for the sensor's sensitivity level is 45-60 cm above the cooker. (Please refer to the table underneath together with the information on page 18, alternatively watch the film on sensitivity configuration).



See film:
URL: <http://goo.gl/eS3oZF>

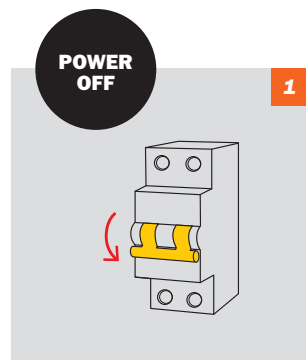
DISTANCE FROM COOKER TO SENSOR		SENSITIVITY LEVEL CONFIGURATION	
Mounting height above the cooker	0-60 cm wide cooker	Sensitivity	Acknowledgement "beep(s)"
150-180 cm	Recommended: Immediately above the middle of the cooker. Alternatively: Farther out into the room with bracket. See the bracket package for mounting instructions.	1 press	●
Mounting height above the cooker	0-90 cm wide cooker		
181-200 cm	Recommended: Immediately above the middle of the cooker. Alternatively: Farther out into the room with bracket. See the bracket package for mounting instructions.		

Please note: the sensitivity level of the Sensor is confirmed by the appropriate sound pattern sequence only and not the LED flashes.

CONTROL UNIT

INSTALLATION OF CONTROL UNIT

It is a statutory requirement that the Control Unit is installed by an authorized electrician. The power to the cooker must be disconnected throughout the entire installation.



Disconnect the power

Switch off the power at the consumer unit.

Note! Do not turn on the Consumer unit before the Sensor is set and ready for a function test.

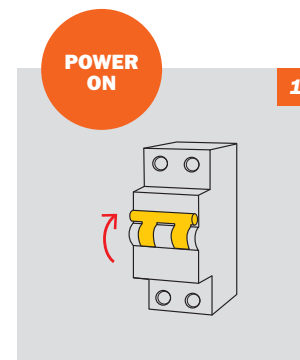


Connect to the Control Unit

Connect according to the wiring diagram, see page 28.

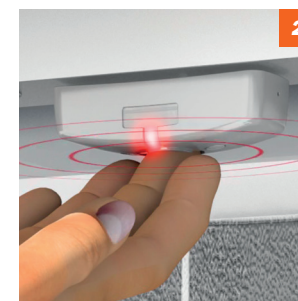
FUNCTION TEST

The installation is completed when the test has been passed. The Sensor will then give an alarm. The operating instructions, accessories and stickers should be left with the product for future reference.



Return the power

Switch on the power at the consumer unit.



Perform function test

Wait 30 seconds. Press and hold the Sensor cover until the Sensor emits a “beep” (●) and the red LED flashes. Release the hold.

The Control Unit will switch off the cooker and give an alarm signal every 5 seconds. The Sensor will also emit a test alarm after a few seconds.

Note! Check that there is no power going to the cooker.



Reset the alarm

It is important to reset the alarm after a function test to ensure power to the cooker. Reset the test alarm by pressing once on the Sensor cover.

Check that the cooker can be turned on (or that there is voltage in the Control Unit).

If the Sensor does not respond or if the test alarm cannot be reset, see page 22, points 5 and 6.

Installation is now ready.

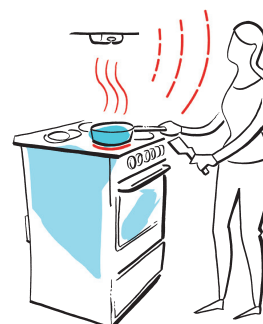
When connecting Stove Guard for the first time it is advisable to wait 15 minutes before normal cooker use to allow the Stove Guard to perform final system checks.

2

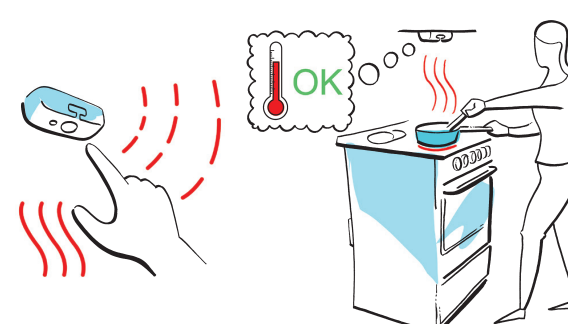
GETTING STARTED

WITH STOVE GUARD

The cooker is ready for use 15 minutes after completing the installation of Stove Guard. However, at the beginning, it may start to signal during normal cooking. This is because the Intelligent Heat Sensor learns what the normal temperature ranges are during cooking.



The Sensor may start making short “beeps” every couple of seconds while it is being used (“pre-alarm”).



Press the cover to indicate that it is not a dangerous situation.

The Sensor has then learned more about your cooking habits and you can continue cooking.

Please note:

When installing the sensor on the ceiling, the learn function will not be operational. The sensor will automatically sound and switch the cooker off in the event of an increased heat condition.

The sensor “learns” based on the user manually resetting a pre-alarm. The learning sensitivity function will not adjust the sensitivity level when the Sensor is mounted on the ceiling. See FAQ page 23, point 15.

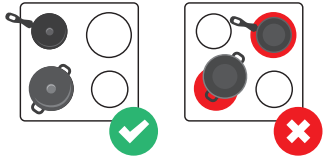
In order to reset the system, turn all controls off. Stove guard will automatically reset itself after the heat condition has cleared and the cooker cooled.

READ BEFORE

USING STOVE GUARD

Avoiding false alarms

Use a pan that covers the entire hotplate to prevent false alarms. Using a lid is recommended. Always use the cooker hood if you have one.



If you have a freestanding cooker or an oven under the hob, the oven controls must also be turned off once the power supply to the cooker or hob has been switched off by the alarm.

After alarm

Mechanical controls

If the Stove Guard has turned the cooker off, first turn all cooker controls to '0', then press the Heat Sensor cover once. After this, the cooker can be used normally.

Touch controls

If the Stove Guard has turned the cooker off, press the Heat Sensor cover once. After this, the cooker can be used normally.

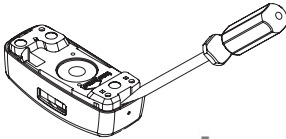
In some cases you must wait until the cooker has cooled down to continue to use.

Dislocation alarm

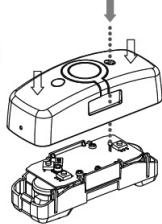
Removing the Heat Sensor from the mounting plate turns the cooker off. Returning the Sensor back to the mounting plate returns the power to the cooker.

Opening and closing the Intelligent Heat Sensor cover

Use the tip of a screwdriver to carefully detach the cover, one end at a time.



To put the cover back, put both ends in at the same time.



Make sure that the black round Sensor goes through the opening of the cover with ease.

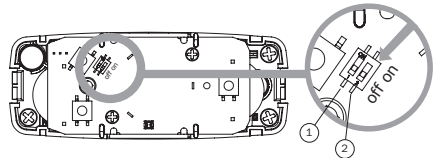
Silent alarm setting

The Heat Sensor alarm signal can be turned off for users that find it disturbing. This is particularly useful for vulnerable people who may experience heightened levels of confusion or stress due to an alarm condition.

For low installations: If the silent alarm setting is applied, the user may not notice the Heat Sensor's LED pre-alarm signal and therefore will not be able to use the learning sensitivity feature. It is therefore recommended to decrease the Heat Sensor's sensitivity by one level, see pages 7-11, to allow for some tolerance before a heat condition is acknowledged by the alarm.

To activate the silent alarm

Open the cover. Turn DIP switch 2 to the 'off' position (the image shows the switch in an 'on' position). Place the cover back according to instructions.



Action in the event of an alarm

The cooker will automatically be ready for use after the Stove Guard has detected that the hazardous situation is over, and all the switches are set to "0". See the alarm overview below for actions.

SOUND	MEANING	MEASURES
Heat Sensor 4 "beeps" with a 1-second interval. ● ● ● ●	Dislocation Alarm The Sensor is removed from the mounting plate.	Return the Sensor to the mounting plate with the LED facing the user.
Heat Sensor Short "beeps" with 5-second intervals. ● ● ● ● ● ...	Pre-Alarm The Sensor sounds an alert to danger 20 seconds before disconnecting the cooker.	If the alarm was triggered during normal cooking: press the Sensor cover once while the pre-alarm sounds. The alarm is turned off and the sensitivity adjusts slightly.
Heat Sensor Many quick "beeps" followed by a long, very loud sound.	Switch-off Alarm The cooker is switched off.	Make sure that the controls are set to "0". Press the Sensor cover once to return the power to the cooker.
Control Unit Short "ring" with 5-second intervals. ~~~~ ~~~~ ~~~~ ~~~~	No power The power to the cooker has been cut off.	Make sure that the controls are set to "0". Wait until the cooker has cooled down after it has been disconnected then press the Sensor cover once to return the power. If the cooker cannot be switched back on, see FAQ, question 9, page 23.
Control Unit Continuous "rings". ~~~~ ~~~~~~ ~~~~~~ ~~~~~~	No power The cooker is too hot for the power to be turned back on.	Make sure that the controls are set to "0". Wait until the cooker has cooled down and the Control Unit starts emitting a short "ring" with 5-second intervals as described in the section above, or press the Sensor cover once to reconnect the cooker. If the alarm does not stop, follow the instructions on page 23, FAQ question 9, and press again.
Control Unit Short and long "ring" with 10-second intervals. ~ ~~~ ~ ~~~ ~	No power due to Auto-diagnostics Alarm The cooker has been disconnected due to a temporary fault (automatic error diagnosis).	Make sure that the controls are set to "0". Wait until the cooker has cooled down after it has been disconnected then press the Sensor cover once to return the power. If the cooker cannot be switched back on, see FAQ, question 3, page 22.
Heat Sensor One "beep" per minute. ● ● ● Or Control Unit One "ring" per minute. ~~~~ ~~~~ ~~~~	Battery Alarm The Sensor has a low battery.	The Sensor battery is low and the Sensors need to be replaced. Pressing once on the Sensor cover delays the alarm for 12 hours. When the batteries have been used up, the cooker can only be used for 5 minutes at a time (EN requirement).

OTHER SETTINGS

Change the Sensor's sensitivity settings

Due to differences in kitchen environments, the sensitivity level of the Sensor may have to be set manually.

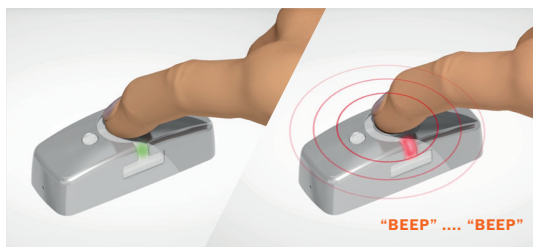
1. Remove the Sensor from the mounting plate

The Sensor emits 4 "beeps" (●●●●). The cooker is turned off.

2. Adjust the sensitivity

See pages 7-11 for appropriate sensitivity levels.

Place the Sensor on the table (as shown in the picture). Press and hold in the cover until 2 "beeps" (●●) are heard. Release the hold. The correct sensitivity can now be applied.



Please note: When selecting the correct sensitivity setting it is important the process is not rushed. Ensure the sensor cover is pressed firmly down each time, holding for a period of 1 second before releasing.

Ensure to pause for 1 second between each cover press.

3. Confirmation of setting

After 5-15 seconds, the Sensor will confirm the sensitivity setting with the same number of "beeps". In case of error, start from step 2 again. Please note: the sensitivity of the alarm is confirmed by the appropriate sound pattern sequence only and not the LED flashes.

4. Activate the Sensor

Return the Sensor correctly onto the mounting plate. Make sure it fits well. See page 5.

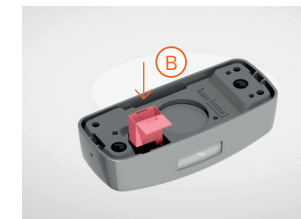
Note! If Stove Guard is installed for the first time, installation must be completed with a function test, see page 13. The Sensor's sensitivity can also be checked or reset to the factory setting, see page 19.

Checking the Sensor's sensitivity setting

1. Remove the Sensor from the mounting plate. (The Sensor gives 4 "beeps" (●●●●) and the cooker is switched off.)
2. Press and hold the Sensor cover (approx. 10 sec.) until 2 "beeps" (●●) are heard.
3. After a moment, the sensor beeps to indicate the configured sensitivity. An unadjusted Sensor's sensitivity setting is level 8, and when checking the level, the Sensor gives a set of "beeps" as follows: 8 - 8 - 5 - 8. If the sensitivity was adjusted to level 3, the sensor would give "beeps": 3 - 3 - 5 - 3.

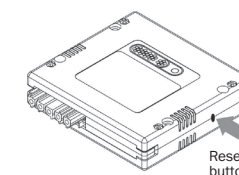
Reset the sensitivity to the factory setting

1. Remove the Sensor from the mounting plate. (The Sensor gives 4 "beeps" (●●●●) and the cooker is switched off).
2. Insert the battery disconnection piece (B) into the hole on the underside of the Sensor. Press the disconnection piece and the cover against each other and hold in for about 5 seconds.
3. Release the hold. (The Sensor emits a "beep" ●). Remove the battery disconnection piece (B) and store it for future use.
4. Press and hold the Sensor cover until you hear 3 separate "beeps" (●●●).
5. Return the Sensor to its position.



Pairing devices

The units are already paired at the factory. When replacing the Heat Sensor or Control Unit, the devices must be paired again.



Note! The Heat Sensor must be placed on the mounting plate during pairing.

1. Check that the cooker is connected to the power supply.
2. Press and hold the reset button firmly for 20 seconds. The Control Unit will emit two sets of clicks and buzzes (approximately after 5 and 20 seconds). Release the

reset button after the second set of clicks and buzzes. The Control Unit is now ready to be paired.

3. Press and hold the NEW Heat Sensor cover until the Sensor emits a "beep" (●) and a red LED flashes. The Control Unit makes a buzzing sound and the Heat Sensor emits a "beep" (●).
4. After 5 seconds, the Heat Sensor gives an alarm (first

one "beep" and after a while continuous beeping). The Control Unit and Sensor are now successfully paired.

5. Reset the test alarm by pressing once on the Sensor cover. Check that the cooker can be turned on. If the Sensor does not respond or if the test alarm cannot be reset, see FAQ, page 22, points 5 and 6.

Carbon monoxide / smoke / heat alarm detection

The carbon monoxide / smoke / heat alarm must be placed within 5 metres of the Control Unit. The Stove Guard is compatible with virtually all alarms, but ensure correct alarm recognition by testing the system first. If you wish to deactivate the feature later, repeat the procedure as stated below.

Please note: Smoke alarms should not be installed in kitchens.

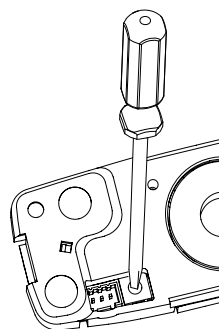
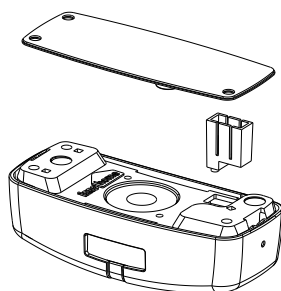
- 1 Remove the Sensor from the mounting plate. (Wait until the Sensor emits four “beeps” (●●●●) and the cooker is turned off.)

- 2 Put the battery disconnection piece into the space on the underside of the Heat Sensor (see image on the right).

Hold the Heat Sensor in your hand and press the disconnection piece and the cover towards each other and hold for about 5 seconds. Release your hold (the Sensor emits a “beep” ●). Then press the disconnection piece and the cover towards each other again and hold for about 5 seconds. Release your hold (the Sensor emits a “beep” ●) and remove the battery disconnection piece. If you have lost the disconnection piece, you can use a screwdriver instead (see image).

- 3 Press the Heat Sensor cover once. The Sensor will now emit “beeps” confirming its new setting: one “beep” (●) signifies that the Audible Alarm Detection is activated, two “beeps” (●●) signifies that the feature is deactivated.

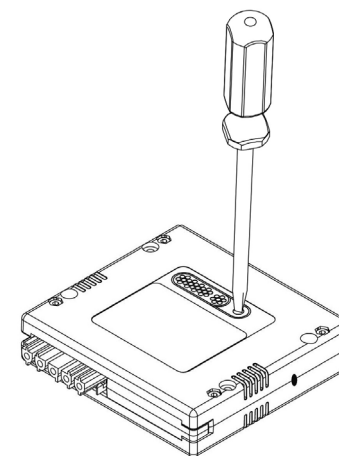
- 4 Return the Heat Sensor to the mounting plate and press the cover once.



Optional features – sound detection problem situations

The Control Unit did not identify the alarm signal of the Carbon monoxide, heat or smoke alarm.

- Note that when CO alarms are tested, their sounds are not always the same as their main alarm sound, and thus they may not be detected by Stove Guard. See the manufacturer's manual about how to trigger an actual alarm for testing.
- Clean the alarm with the soft brush attachment of a vacuum cleaner.
- Change the batteries in the alarm if necessary.
- Check that the alarm is not located too far from the Control Unit. The alarms should be located at a maximum distance of 5 metres.
- Adjust the signal recognition frequency by turning the trimmer on the Control Unit using a screwdriver (frequency adjustment, see the image on the right): first turn the trimmer approximately 0.5 mm to the right and then perform a function test with the carbon monoxide/ smoke alarm. If the Control Unit does not react to the alarm signal, ensure to return the trimmer to its original central position and then move 0.5 mm to the left, and repeat the function test. If the Control Unit does not identify the signal, this time move the trimmer 1 mm to the right. Keep repeating function tests and moving the trimmer with an ever-increasing movement, moving from right to left until the Control Unit identifies the signal.



The Control Unit responds to other sounds e.g. a telephone ringing or noise from a television.

Change the telephone's ring tone or turn down the volume on the television. If the signal causing the false alarm cannot be disabled, adjust the signal recognition frequency by turning the trimming screw on the Control Unit as described above.

FREQUENTLY ASKED QUESTIONS

1. I cannot turn on the cooker, and there is no signal from the Control Unit.

ANSWER 1: The Sensor has been removed or placed incorrectly on the mounting plate. The LED (A) should face the user and be positioned parallel to the mounting plate. See page 5.

ANSWER 2: If the sensor is correctly positioned on the mounting plate, the Control Unit's overheating protection has switched the cooker's power off. The cooker can be switched on again by turning off the power supply for a few seconds using the cooker's fuse (in the consumer unit). If the overheating protection fails again, move the Control Unit to a cooler or better-ventilated place.

2. The Stove Guard emits alarms during normal cooking.

ANSWER 1: Sensors positioned lower than 90 cm above the cooker have a learning function (see page 15). Pressing the Sensor cover during the pre-alarm lowers the sensitivity slightly.

Other causes of alarms during normal cooking:

- A pot is removed from a hot hotplate
- A kettle/pot does not cover the hotplate
- Cooking without a lid
- A hot frying pan placed on the hotplate

ANSWER 2: If measures to prevent unnecessary alarms have been performed a few times and the Heat Sensor still emits alarms in the same situation, the sensitivity should be adjusted manually. See page 18.

3. The Auto-diagnostics alarm was not reset by pressing once on the Sensor cover.

The Auto-diagnostics alarm (Control Unit emits one short and one long "ring" every ten seconds) may be triggered if the Sensor is not on the mounting plate, if it is positioned incorrectly, or if the Sensor is covered by dirt or grease. It can also be triggered by a problem with the radio connection or malfunction of Stove Guard.

ANSWER 1: Make sure that the Heat Sensor is firmly attached to the mounting plate and that it is positioned correctly. The LED (A) must be facing the user (see page 5). Clean the Sensor with a lint-free cloth moistened with soapy water. Press the Sensor cover once.

ANSWER 2: Turn off the cooker's power from the consumer unit for 15 seconds.

ANSWER 3: If the fault diagnosis switches off the cooker again, contact the retailer. If the cooker is still turned off due to the fault diagnosis, it can only be used for 5 minutes at a time by turning the power off for 15 seconds as described in answer 2 above (EN requirements).

4. Placing of Sensor in zones that do not necessarily match all EN standard requirements.

ANSWER: According to the EN standard, the Sensor should "see" the base of the pot in order to measure the temperature. In these zones (see the tables on pages 7 and 9), the Sensor cannot see the bottom of pots with high edges and may identify a hazardous situation somewhat more slowly, but is still safe to use.

5. During the function test, the Sensor does not emit a sound when the cover is pressed.

ANSWER: Make sure that the red battery disconnection piece is removed.

6. The test alarm cannot be reset.

ANSWER: First try the function test, see page 13. If this does not fix the problem, turn off the cooker's power at the consumer unit for 15 seconds and repeat the function test. Wait for 5 seconds before resetting the alarm. If the alarm still cannot be reset, the Heat Sensor and Control Unit must be paired again, see page 19.

7. The Stove Guard did not give an alarm in a dangerous situation.

It is possible that the temperature was not high enough to be identified as a dangerous situation.

The Heat Sensor takes different cooking situations into account, including high-temperature cooking, and should not give an alarm too easily. Therefore, the Stove Guard only emits an alarm when a certain temperature (or rate of temperature rise) is detected, but still long before a real risk situation. However, it is important to check the Stove Guard's function (see the next sections).

ANSWER 1: Make sure that the Sensor is correctly installed. See page 6 and after.

ANSWER 2: If the Sensor is properly installed, turn on a hotplate and perform a function test, see page 13. Make sure the Control Unit turns off the cooker. If the function test fails, contact the retailer.

ANSWER 3: When mounting lower than 90 cm above the cooker, it is possible to change the sensitivity of the Sensor, so it reacts earlier. Increase the sensitivity by one or two steps. See page 18.

8. I cancelled the pre-alarm by mistake, even though the alarm was triggered by a dangerous situation. Has the Sensor become too insensitive now?

ANSWER: Deactivating the pre-alarm changes the sensitivity, but only to a small extent. This can therefore be carried out a few times without the alarm becoming insensitive.

9. I cannot turn on the cooker and the Control Unit emits a ring tone almost continuously.

ANSWER: The cooker is locked due to several repeated alarms for the maximum temperature. Unlock by turning off the cooker's power at the consumer unit for 15 seconds.

10. How do you test Stove Guard with an induction cooker?

ANSWER: You need an adapter plate that allows the use of all cookware on an induction cooker (available from many retailers). Place the adapter plate on a cooker and perform a heat test by turning on the plate. This test is not absolutely necessary, as potential problems are eventually solved by the Auto-diagnostics.

Note! The test is recommended when retrofitting the cooker and ceiling-mounted Sensor.

11. The Heat Sensor gives an alarm when I make coffee with an espresso pot.

Espresso pots are often much smaller than the hotplate, and the heat from the plate makes the Stove Guard think there is a dangerous situation.

ANSWER: Deactivate the alarm by pressing the Sensor cover. The sensitivity level of the Sensor will not change, as the espresso maker triggered an alarm for maximum temperature and not self-learning.

12. What do I do if the Sensor or Control Unit must be replaced with a new one?

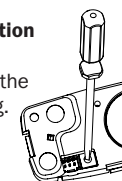
ANSWER: Contact the retailer for a new part. When replacing, pair the devices. See page 19.

13. Where can I find the Sensor model number?

ANSWER: On the underside of the Sensor there is a sticker with the model number.

14. I have lost my battery disconnection piece.

ANSWER: A screwdriver can be used if the battery disconnection piece is missing. Carefully press the button on the underside of the Sensor.



15. Why does the learning sensitivity function not work when I install the Sensor on the ceiling?

ANSWER: The Sensor "learns" based on the frequency of manually reset pre-alarms. The sensor's ability to automatically return the power to the cooker after an event enables the user to not have to reset the alarm manually (by using an additional reset button or reaching to the ceiling to press the Sensor's cover). The Sensor will not learn and adjust its sensitivity level because there are no manual reset requirements for pre-alarms when on the ceiling.

3



TECHNICAL SPECIFICATIONS

OF THE STOVE GUARD

Intelligent Heat Sensor

Front of alarm unit should face towards user

Solar cells

Signal LED

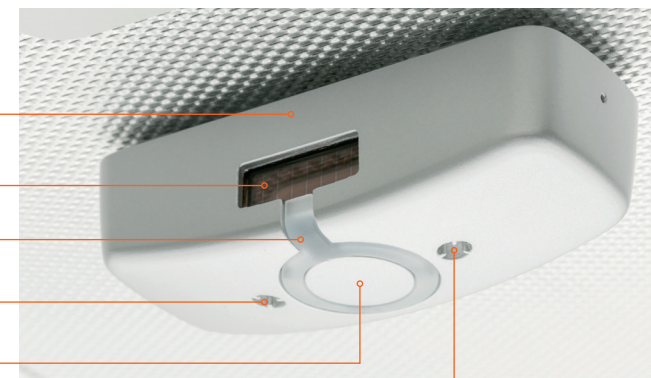
Temperature Sensor

Cover

The entire cover is a button that can be pressed in. The signal light turns green when pressed.

IR lens

Note! For high installations, replace IR lens with black tube IR lens (included in the pack).



- Alarm signal 80 dB(A) @ 1m / Silent alarm
- Extremely low energy use (approx. 1 W)
- Sparkless electric switch
- RF 433 MHz
- Factory paired
- Voltage 230-400 VAC
- Halogen free and fire rated plastic, flammability rating V-0 (Intelligent Heat Sensor)
- Patented EP1861839, EP2902710
- Fulfils EN 50615 Stove Guard standard requirements (VTT Expert Services)

Warranty

In addition to the statutory warranty from the retailer, this product has a 5-year manufacturer's warranty covering defects in materials or execution.

The warranty applies from the date of purchase. This warranty does not affect your legal rights. The warranty covers the use of the product under normal circumstances in private households and housing associations. The warranty is limited to replacement or repair of defective components. The warranty includes batteries for regular household use.

The warranty applies only when the product is used according to the instructions. It does not cover damage caused by misuse, improper handling, use of force, batteries, dust, dirt, water or other environmental factors.

If you have a warranty claim, contact your retailer for instructions. We only accept authorized returns with a complete description of the defect. After the warranty period, you will be charged for repairs and it may not always be possible to have the product repaired.

Warranty claims do not extend the original warranty period, and the warranty on spare parts expires at the same time as the product warranty. Unless otherwise provided by law, the manufacturer shall not be liable for additional claims, including for personal or material damage arising from the use of the product or its deficient function or malfunctioning.

Disposal

Information about disposal of electrical and electronic waste (private households). EU Directive 2012/19/EC on recycling of waste electrical and electronic equipment (WEEE)

This symbol on the Stove Guard and associated documents means that this product should not be disposed of with normal household waste. For proper handling and recycling, this product must be delivered to a separate collection point where it will be accepted free of charge. The product can be returned to your local retailer when purchasing a corresponding new product.

Proper disposal of this product helps to save valuable resources and prevent potentially harmful effects on human health and on the environment, which may otherwise occur in the event of improper handling of waste.



EU Declaration of Conformity

As the product's manufacturer, we declare under our sole responsibility, that this product corresponds to:

- Radio Equipment Directive (RED) 2014/53/EU
- The Low Voltage Directive 2014/35/EU
- The EMC Directive 2014/30/EU
- The RoHS Directive on the Use of Hazardous Substances 2011/65/EU

... and the following harmonized standards and technical data are used:

- Fire prevention devices for hobs EN 50615:2015 (Cat. B)*
- EN 60730-1:2011
- Device Requirements EN 60335-2-31:2014, paragraph 30
- Electromagnetic Compatibility and Radio Spectrum Matters (ERM) EN 300 220-1 V3.1.1, EN 300 220-2 V3.1.1
- Electromagnetic Compatibility (EMC) EN 301 489-1 V2.1.1 and EN 301 489-3 V2.1.1
- RoHS EN 50581:2012

* EN 50615: 2015 European standard for stove guards, approved 05.01.2015, available 06.03.2015.

The full title of the standard: Household and similar electrical appliances. Safety. Particular requirements for devices for fire prevention and suppression for electric hobs (cooktops).

Tested by an independent, accredited testing laboratory (VTT Expert Services Finland).

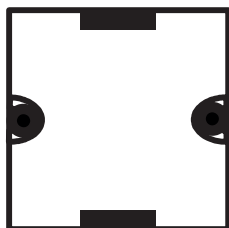
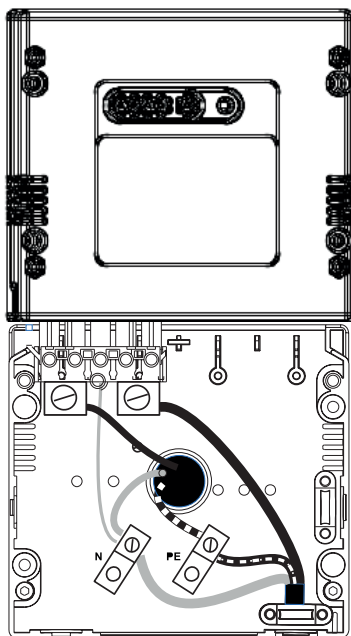
This device is independently tested and categorised as Category 2 Receiver. Reference: ETSI EN 300 200-2 V3.1.1 Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non-specific radio equipment. Subclause 4.4.2 Blocking.

Signed for and on behalf of Innohome Oy:

CTO Matti Myllymäki

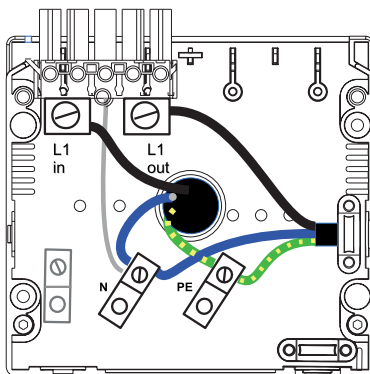
COOKER CONNECTION

SGC510-2



Wall outlet

SGI510-2JF



Stove Guard's maximum supply current allowed is 32A and the appropriate diversity factor is 100%. The diversity factor applies to Stove Guard installations with parallel connected relays. Type 1, or equivalent circuit breaker (MCB) shall be used for protecting the Stove Guard supply. The circuit breaker shall have capability of interrupting the supply current within 100 ms at 4 x load.

Design & Technology by



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For more information on FireAngel Stove Guard contact
Technical Support 0800 171 2009 or visit www.fireangel.co.uk.