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LYNG**

MICROSAFE®

Installation instructions/User instructions



mKomfy 1.8 25R

Part No. 6251680

SAVE THESE INSTRUCTIONS

Facts

The mKomfy Cooker Guard is a security product developed to minimise the risk of fire when cooking.

The mKomfy 1.8 sensor only works with Sockets from SN: 1840-000001 onwards.

The product assumes normal care in the use of the cooker and associated cookware. In normal use the cooker should be kept under frequent observation, even if safety equipment such as the mKomfy is installed.

The product must be installed and maintained correctly as described, and may only be fitted by an authorised electrician.

Accessories



Optional extras for the mKomfy 1.8 cover additional needs and safety. Compatible with newer wireless accessories labelled "v2".



External reset button



External master switch



Smoke shut-off

Overheating

The Cooker Guard monitors the temperature of the cooker and sounds the alarm if it exceeds the upper limit.

The temperature alarm beeps 3 times every 5 seconds for 20 seconds and a red light comes on in the sensor. Reduce the temperature of the cooker immediately to prevent it being turned off, or press the control button on the sensor to approve the higher temperature for a set time.

Anti-tamper function

If the sensor is removed from the bracket and/or is not horizontal and perpendicular, a security function will be activated and beep 5 times in 5 seconds before the cooker is turned off. Replace the sensor in the wall bracket and press the control button to continue using the cooker.

Optional timer function (see page 10 for activation)

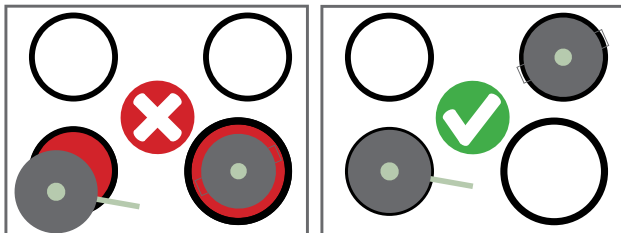
When the Cooker Guard detects that the cooker has been turned on, it can start a built-in timer (countdown clock). When the timer reaches zero, the cooker is turned off. The Cooker Guard will alert the user for the last 5 minutes. To restart the timer, press the control button on the sensor once.

To extend cooking time, hold the control button in for 10 seconds (see page 5).

Things to think about when cooking

Sliding a pan across to another ring will expose a very hot surface, and the Cooker Guard may register this as overheating, causing the alarm to go off.

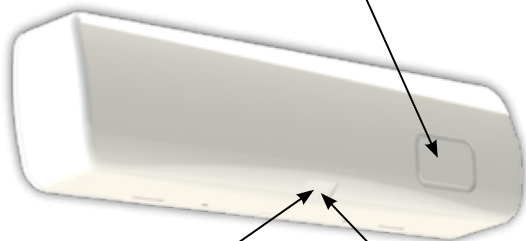
Use pans that cover the whole ring to reduce the chance of unwanted temperature alarms.



Everyday use

Control button

- Reset alarm
- Extend cooking time
- Reset cut-out



Temperature sensor

Clean regularly with a damp cloth and soapy water.

Light

Battery

We recommend changing the battery every 5 years or if there is a low battery warning.

1. Take the sensor off the wall.
2. Remove the back cover (2 screws).
3. Change the batteries, 3 x "AA".
4. Reattach the cover and replace the sensor on the wall.
5. Press the control button.

Alarm signal

Alarm signal:	One (1) beep every 15 seconds for 5 minutes
Cause:	Cooker Guard warning that timer is in last 5 minutes.
Action:	Press control button to restart timer.

Alarm signal:	Five (5) beeps in the course of 5 seconds.
Cause:	Anti-tamper function detects that sensor has been removed from bracket.
Action:	Replace sensor in bracket and press control button.

Alarm signal:	Two (2) beeps every 5 minutes.
Cause:	Battery change necessary.
Action:	Change batteries. NB: Make sure you have new batteries to hand first (3 x AA).

Alarm signal:	Three (3) beeps every 5 seconds and red light
Cause:	Overheating.
Action:	Reduce temperature, or press control button to temporarily approve high temperature.

Temporarily extended cooking time

(Only applies if Timer Function is activated, see page 3)

The timer (countdown clock) can temporarily be extended to 2 hours (12 hours if 120/360 min. is set) by holding the control button in for 10 seconds.

The sensor beeps twice to confirm that the cooking time has been extended.

When the time expires or the cooker has been turned off for at least 2 minutes, the countdown is reset to the standard time.

To cancel the extended cooking time, hold the control button in for 10 seconds. The sensor beeps once to confirm.

Installation – Socket

The sensor and socket are paired at the factory and ready to install.

If re-pairing is necessary:

Remove at least once battery from the sensor (you can get batteries ready for the sensor, but DO NOT fit them).

1. Give the Socket control button a quick press. Yellow LED flashes.
2. Hold the control button on the sensor in and fit batteries in the sensor.
3. There are 4 beeps, the blue LED on the socket flashes and the socket turns off.
4. Release the control button on the sensor.

The sensor and socket are now paired.

1. Fitting the socket (may only be carried out by authorised personnel)

1. Connect and fit the socket.
2. Connect the cooker plug to the Cooker Guard's socket.
3. Check that power is connected to the socket.

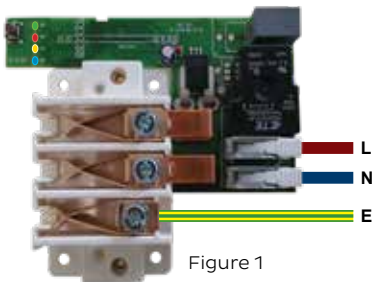


Figure 1

Status LEDs

Green	lights up	when socket is ON
Blue	flashes	when data is received from paired units (e.g. sensor)
Blue +	flash	if wireless connection with sensor is lost (emergency mode*)
Green	alternately	
Red	flashes	if socket overheats – socket is turned OFF
Red	flashes + beeping	if there is an error, e.g. external switch paired before sensor
Yellow	lights up	when cooker's electricity consumption exceeds 1.2 A**
Yellow	flashes	in pairing mode

* emergency mode = all safety functions deactivated

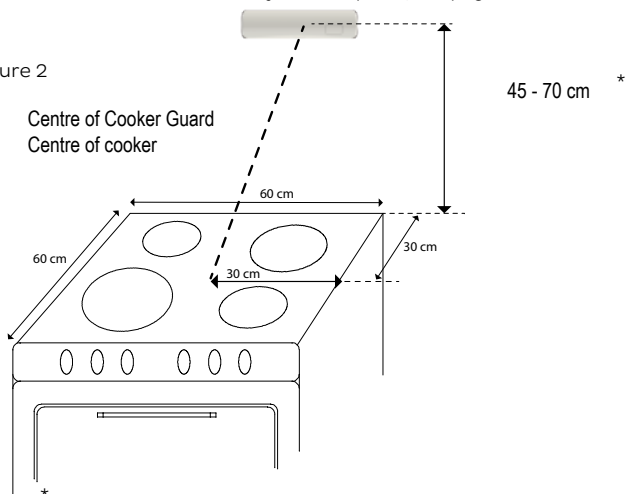
** 1.2 A is the factory default. After calibration, the LED lights up when the new setting is exceeded (page 11)

2. Fitting the sensor

NB: For the sensor to be tested before fitting, it must be in the bracket and kept horizontal and perpendicular to prevent the anti-tamper function being activated.

1. Remove the battery cover and fit batteries (3 x AA).
2 beeps = battery OK.
2. Tear off the red protective film on the bracket.
Mount the sensor on a flat, clean surface on the wall above the centre of the cooker at a height of 45-55 cm, see figure 2. For other installation heights, see page 9.
3. Press the control button on the sensor once. A short beep confirms that the sensor is in communication with the socket and working.
4. Make sure that only the green LED on the socket lights up when the cooker is connected and turned off. If the yellow LED lights up, the cooker's standby electricity consumption is higher than the standard setting. In this case the level in the mKomfy can be calibrated to the cooker's actual electricity consumption, see pages 10 and 11.

Figure 2



* sensor height 45-75 cm for hobs \leq 60 cm wide
sensor height 65-70 cm for hobs \leq 90 cm wide

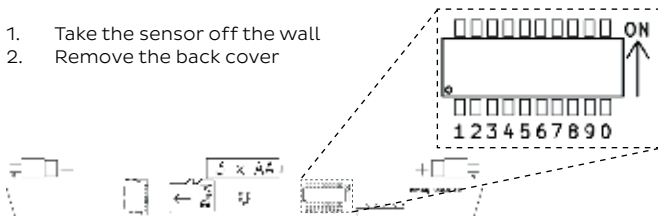
Installation – Settings

Settings

All settings are made with DIP switches on the PCB in the sensor.

The switch marked 0 activates test mode.

1. Take the sensor off the wall
2. Remove the back cover



List of DIP switch functions

You will find more information on the individual functions and settings on the following pages.

**To be completed
by installer**

DIP	Function	Standard	Set to
DIP 1	Sound	ON	
DIP 2	Light	ON	
DIP 3	Installation height	OFF	
DIP 4	Installation height	OFF	
DIP 5	Timer	OFF	
DIP 6	Timer	OFF	
DIP 7	Timer	OFF	
DIP 8	Autoconnect	ON	
DIP 9	Current measurement	ON	
DIP 0	Test mode	OFF	

DIP 1: Audible alarm

DIP 1	Audible alarm	Standard
OFF	Deactivates all sound	
ON		•

DIP 2: Visual alarm

DIP 2	Visual alarm	Standard
OFF	Deactivates all lights	
ON		•

DIP 3 and 4: Installation height / hob type

For hobs up to a width of 60 cm the sensor can be fitted 45-70 cm above the hob. Any lower and it might not comply with EN50615. For wider hobs (up to 90 cm) the sensor must be fitted 65-70 above the hob to cover the full width.

DIP 3	DIP 4	Installation height	Standard
OFF	OFF	45-55 cm – Normal	•
ON	OFF	56-70 cm – Normal	
OFF	ON	45-55 cm – Increased alarm threshold*	
ON	ON	56-70 cm – Increased alarm threshold*	

* Increased alarm threshold

Ceramic hobs give off a lot of radiant and residual heat, which can lead to false alarms, as the sensor also measures the heat outside the actual ring. Allowance can be made for this by increasing the alarm threshold for the smallest rings.

NB: Increasing the alarm thresholds will reduce safety, because in certain cases the Cooker Guard will not differentiate between the smallest plates and radiant/residual heat. Nor will the Cooker Guard comply with EN50615 in some cases when a higher alarm threshold is set.

We would, however, recommend using cookware that covers the entire heating zone instead and turning the ring off BEFORE removing the cookware.

NB: Does not apply to induction hobs.

Installation – Settings

DIP 5, 6 and 7: Timer function

The countdown starts when the cooker is turned on. When 5 minutes of the set time are left, the Cooker Guard beeps once every 15 seconds for 5 minutes. Pressing the control button restarts the countdown.

DIP 5	DIP 6	DIP 7	Minutes (extended)	Standard
ON	OFF	OFF	15 (2 h)	
ON	ON	OFF	30 (2 h)	
ON	ON	ON	45 (2 h)	
OFF	ON	ON	60 (2 h)	
OFF	OFF	ON	90 (2 h)	
OFF	ON	OFF	120 (12 h)	
ON	OFF	ON	360 (12 h)	
OFF	OFF	OFF	Off	•

DIP 8: Autoconnect

NB: In order for this function to work, DIP 9 must be ON. Fifteen minutes after turning the cooker off, the Cooker Guard will automatically be reset and turn the power back on. On a cooker with rotary switches, all the rings and oven must be turned off before the Cooker Guard will reset itself automatically.

If this function is not activated or to reset the Cooker Guard manually, press the control button on the sensor (or external switch panel, optional extra).

DIP 8	Autoconnect	Standard
OFF	Autoconnect off	
ON		•

DIP 9: Current measurement

When current measurement is ON, the Cooker Guard will only give an alarm when the cooker is in use. This includes all types of alarm signal, including low battery.

NB: We recommend that you do not turn off current measurement, as this will reduce battery life considerably.

DIP 9	Current measurement	Standard
OFF	Current measurement off	
ON		•

Installation – Calibration and function test

Calibrating electricity consumption

NB: May only be carried out by an authorised electrician.

If the yellow LED on the SOCKET comes on continuously when the hob is OFF and does not disappear when the control button on the sensor is pressed, the cooker's standby current is higher than the Cooker Guard's preprogrammed standby level.

In this case the level can be recalibrated to actual electricity consumption by:

1. Holding the SOCKET's control button in until the red and green LEDs flash – then release the button within two seconds.
2. The green LED flashes three times to acknowledge the change.

NB: We strongly recommend measuring the hob's electricity consumption in standby BEFORE doing this calibration. High electricity consumption could be caused by a fault in the hob. Incorrect calibration the case of high electricity consumption can result in the Cooker Guard never starting or not working as intended.

Function test

There are two different function tests: 1 = On/Off test 2 = Current test.

To activate the function test:

1. Remove the SENSOR cover and set DIP switch 0 to ON
2. Put the cover back on temporarily to stop the batteries falling out.

To change between the two function tests, hold the control button on the SENSOR in for five seconds.

The sensor acknowledges with one or two beeps to indicate the test type.

1 beep	On/Off test	2 beeps	Current test
The sensor acts as an ON/OFF switch. Pressing the control button switches between turning the power to the cooker ON/OFF. The light on the SENSOR comes on when the cooker socket is on (sending power to the cooker).		Indicates electricity consumption for the hob. Following activation turn the hob on ON. A few seconds later the red LED on the SENSOR should come on continuously and the green and yellow LEDs on the SOCKET should light up. Now turn the hob off. The red LED on the SENSOR goes out and only the GREEN LED on the SOCKET should be on.	

When you have performed the function test(s), remember to set DIP switch 0 to OFF.

Thank you for choosing...

MICROSAFE®

2819 Art. No.:

Technical data

Cooker Guard
mKomfy 1.8 25R

Operating voltage:

230 VAC (+/- 10%)

Max. load:

25 A

Battery:

3 x AA/LR06

Battery life:

Up to 5 years

RF:

868.100 MHz

Transmitter power:

+5 dBm



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PRODUCTS



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