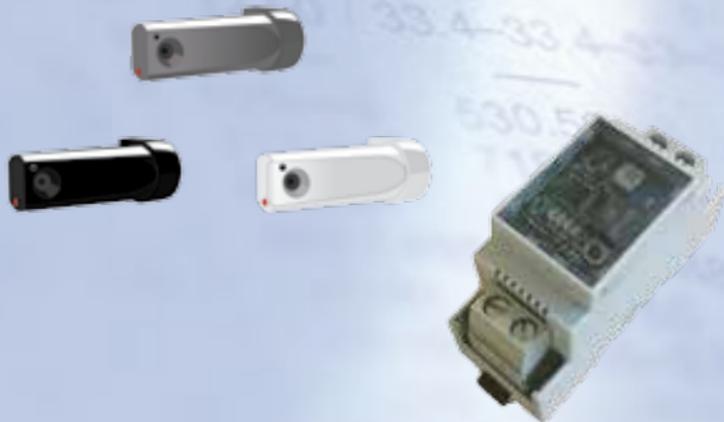




Installation instructions/User instructions



Mkomfy 2G R-T 25A

Panel-installed cooker guard relay

Mkomfy set with sensor and relay
is supplied ready paired and ready for use

**CTM
LYNG**

**Fulfils the requirements
of NEK 400:2014**

SAVE THESE INSTRUCTIONS

User information

Microsafe Mkomfy is a safety product from CTM Lyng AS. The product assumes normal care in the use of the cooker and suitable cooking implements. A cooker should never be left unattended during use, even if safety equipment such as Mkomfy is installed.

Timer function

When the cooker is in use, Mkomfy will detect heat on the hob and an integral timer will start up. After 2 hours of use the power supply will be cut off. This is to prevent any overheating and risk of fire if the cooker is forgotten or left with the elements turned on. During the final 5 minutes of the 2-hour period (or 12 hours, see page 3), Mkomfy will emit a sound signal every 5 seconds. If it is wished to use the hob for more than 2 hours, pressing the function button will extend the user time by an extra 30 minutes. This may be repeated when a further sound signal is heard.

Anti-tamper function

If the sensor is removed from its bracket, a safety function is activated and cuts off the power to the cooker. On activation, the sensor will beep once a second for 5 seconds, before disconnecting the cooker. To start the cooker, replace the sensor in the bracket and press the function button (short press).

Over-heating

If the cooker hob is in danger of over-heating, Mkomfy will emit a triple sound signal every 5 seconds. If the function button is operated by pressing it within 40 seconds of the first alarm, the sound signal will be turned off for 5 minutes in order to give you time to reduce the cooker temperature. If the sound signal is not turned off, power supply will cut out 40 seconds after the first sound signal. To re-activate the power supply after cut-out, press the function button.

Do visit us on
www.ctmlyng.no/komfyrvakt
or scan the QR code on the right with your
smart phone for more information and
documentation regarding the cooker guard.



User information

Changing the user time

The user time can be altered from 2 hours (standard) to 12 hours. This is done by holding in the function button at the end of the sensor (see illustration below) for 10 seconds. The sensor will acknowledge this with two short sound signals. If it is wished to reset Mkomfy to 2 hours operating time, hold the cut-off button in for 10 seconds, and the sensor will acknowledge this with 1 sound signal. The time will also reset automatically to 2 hours following use (cold cooker elements).



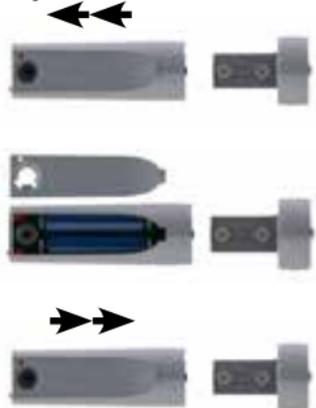
Maintenance

The temperature sensor must be cleaned regularly with a cloth dampened with slightly soapy water.

Battery change

Battery change is normally only necessary after approx. 6 years' use. The sensor will warn about battery change when necessary. This will be done by 2 short sound signals every 5 minutes.

1. Pull the sensor out of its bracket without twisting it.
NB: Do not loosen the set screw!
2. Flip off the cover from the rear edge nearest the bracket and insert new AAA batteries. Replace the cover
3. Replace the sensor in its bracket in the correct locking position and press it fully into place.



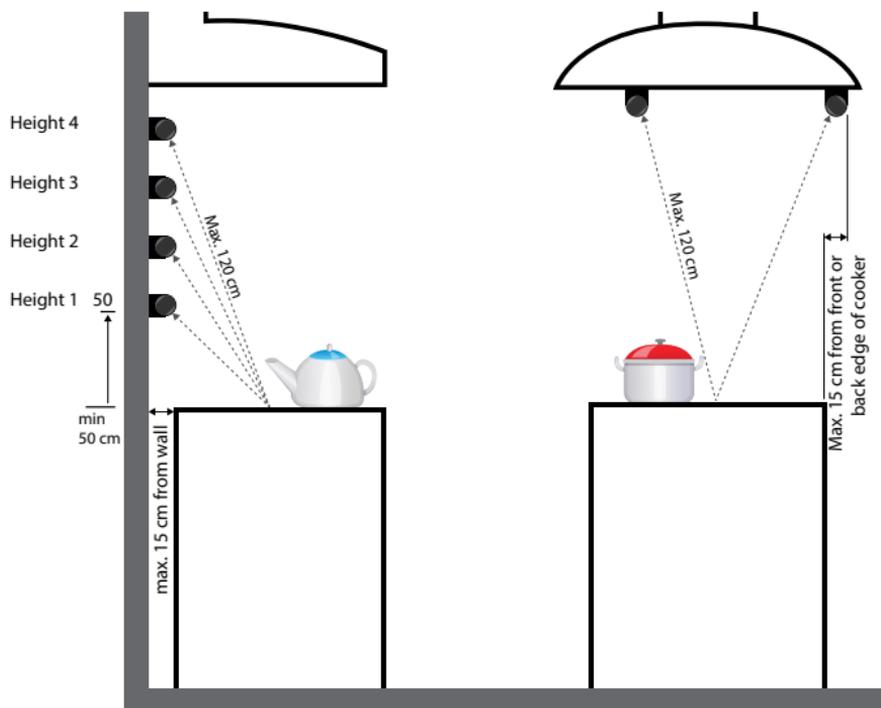
Installation information

Installation information for sensor

The sensor is supplied with a screw fixing and double-sided tape. To ensure a permanent fix, it is recommended to use the accompanying screws.

If using the double-sided tape, it is very important that the wall is carefully cleaned prior to mounting and that the wall is completely free from moisture after cleaning.

NB: The sensor must be positioned horizontally and in the centre of the cooker width. See sketch:



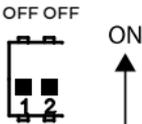
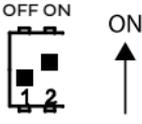
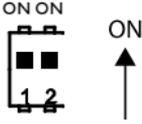
Installation information

Mounting distances

The straight-line distance from the sensor eye to the centre of the hob must not be more than 120 cm.

- The height from the hob to the sensor must a minimum of 50 cm.
- The distance from the sensor bracket/wall to the hob edge must be no more than 15 cm.

The manufacturer has set the sensor for a standard mounting height of 50 - 70 cm. When mounting the sensor at heights greater than this, the positions DIPSW1 and DIPSW2 must be changed in accordance with the table:

DIPSW setting		Mounting height
Height 1 (Standard)		50-70 cm
Height 2		71-90 cm
Height 3		91-105 cm
Height 4		106-120 cm

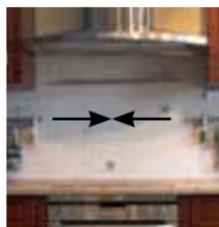
Installation information

Installation information for sensor

Fixed sensor (for different mounting heights, see page 4-5)

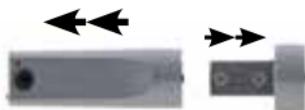
1.

Identify the correct location by making sure the sensor eye is in the centre of the cooker's width dimension and mark off where the bracket is to go.



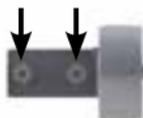
2.

Pull the sensor off the bracket.
NB: Do not release the set screw



3.

Screw the bracket using the screws supplied to the location marked off under Point 1.



4.

Replace the sensor in the bracket.



Installation information

Adjusting the sensor

1.

Remove the set screw.



Set screw

2.

Hold the function button in for 20 seconds. The light beam will flash for 60 seconds.



Function button

3.

Rotate the sensor so the light beam hits the centre of the hob.



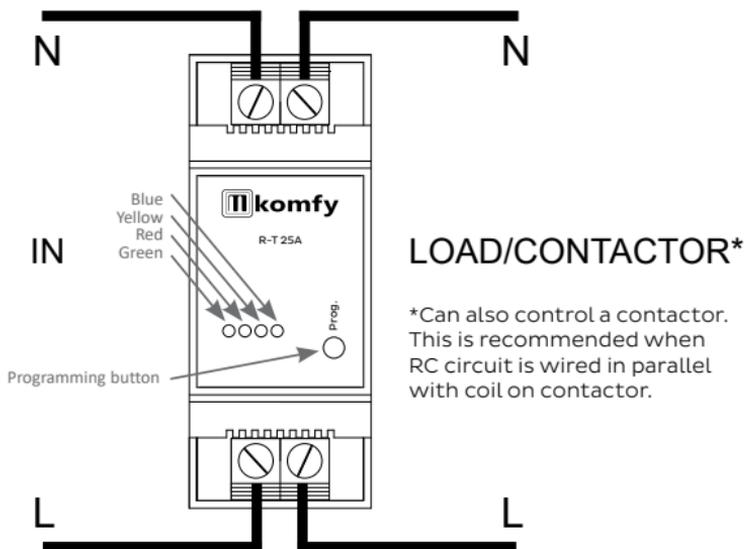
4.

Tighten the set screw at the end of the sensor.



Set screw

Installation information



Explanation of LEDs

Green	Lights up continuously while the relay is connected. Flashes if there is no communication with the sensor *
Red	Flashes when paired units are deleted or if the command from the sensor is rejected.
Yellow	Flashes when the relay is set to pairing mode.
Blue	Indicates radio communication. Flashes when button on sensor is pressed. *

* Green and blue flash simultaneously when relay is in emergency mode.

Deletion of connected units on Relay

Hold the programming button in for 8 s until the Red diode begins to light up. Do not release the button until this diode starts to flash. All connected units are now deleted.

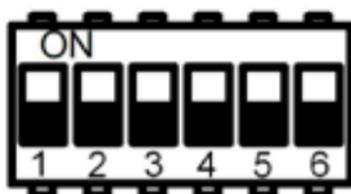
Installation information

Test mode

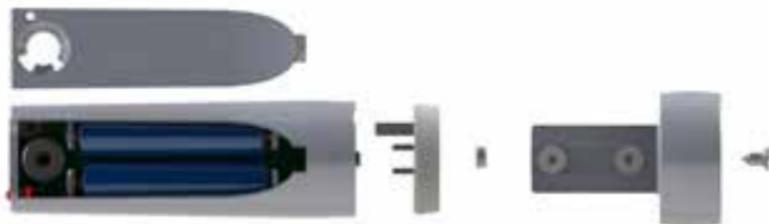
Remove the sensor from the bracket and remove the batteries. Set DIPSW6 to "ON", and insert the batteries. If the sensor has radio contact, it will start to beep and the function test will run. If the sensor does not have radio contact, see "Pairing" page 11. NB After 2 minutes, the function test will deactivate. Remember to deactivate the test mode by setting DIPSW6 to "OFF".

DIPSW overview

- Nr 1: Positioning
- Nr 2: Positioning
- Nr 3: N/A
- Nr 4: N/A
- Nr 5: Debug
- Nr 6: Pairing/Test



Sensor overview



Installation information

Pairing of Sensor and Relay

The Mkomfy set with sensor and relay in the same pack are already paired. If you have bought a separate sensor, this must be paired with the relay.

This can be done in two different ways.

Read through the whole instruction for both alternatives before performing pairing!

Alternative 1:

Pairing of Sensor without physical intervention on relay.

1. Activate Sensor in pairing mode by setting DIPSW6 to active [ON].
2. Disconnect the power to Relay for 5 seconds by turning the relevant protection circuit off and on.
 - Within 20 seconds of turning the protection circuit on:
Hold in the function button on the sensor for 6 seconds.
The sensor will emit a sound signal every 2 seconds, if pairing has succeeded.
3. Disconnect the power to Relay again for 5 seconds by turning the relevant protection circuit off and on.
NB! This must be done within one minute of powering the relay under Point 2, or the pairing will not be saved
4. Set DIPSW 6 back to inactive [OFF].
Pairing is now complete.

Alternative 2:

Pairing of Sensor by activation of programming button on relay.

1. Activate Sensor in pairing mode by setting DIPSW6 to active [ON].
2. Briefly press the programming button on Relay. Yellow diode will now begin to flash. The relay will now be in pairing mode for 30 seconds.
3. Hold in the function button on the sensor for 6 seconds while the yellow LED flashes. The sensor will emit a sound signal every 2 seconds, if pairing has succeeded.
4. Set DIPSW 6 back to inactive [OFF].

NB: It is not possible to have more than 1 Mkomfy Sensor connected to the Relay at the same time. Pairing a new sensor will automatically delete the sensor already paired with the Relay.

User information

Alarms signals with use of Mkomfy

Alarm signal:	One (1) sound signal every 15 seconds.
Cause:	In the last 5 minutes of the timer function.
Action:	Press the button for an extra 30 minutes of function time.
Alarm signal:	One (1) sound signal every second for 5 seconds.
Cause:	Anti-tamper function detects that the sensor has been removed from the bracket.
Action:	Replace the sensor in the bracket and press the button.
Alarm signal:	Two (2) sound signals every five minutes.
Cause:	Battery change necessary.
Action:	Pull the sensor from the bracket. Flip off the cover and insert new AAA batteries. See more in User instructions page 3.
Alarm signal:	Three (3) sound signals every 5 seconds, lasting for max. 40 seconds, and the LED flashes.
Cause:	Overheating.
Action:	Press the button and take action, e.g. by turning down the heat, within 5 minutes.
NO RESPONSE	
Cause:	No power to the cooker.
Action:	Press the button. NB If this does not work, insert new batteries in the sensor as described above.

NB If none of these actions work, turn the fuses on the cooker circuit off and on. You will now have power for 12 hours. Use this time to call an electrician to find the source of the problem.

This is an emergency mode. NOTE that the safety function is NOT active in this period.

The relay beeps once every 30 seconds for the first 5 minutes after activating the emergency mode.



Thank you for choosing...



3517 - Art. No. 11637

Technical data

Mkomfy Komfyrvakt R-T 25A

Voltage:
230 VAC (+/- 10%)

Max. load:
25 A

Physical dimensions, sensor:
83x32 mm

Timer:
2 hours/12 hours

Battery type:
2 pcs. AAA/LR03

Battery life:
Up to 6 years

RF:
868,100 MHz

Transmitter power:
+5 dBm



El. No.	Name
6251661	Mkomfy 2G R-T 25A Chrome
6251662	Mkomfy 2G R-T 25A Black
6251663	Mkomfy 2G R-T 25A White

Manufacturer: CTM Lyng AS, www.ctmlyng.no, Tel. +47 72831611