

Multisensor Plus

Multisensor Plus

Multifunctional radio, smoke, heat & carbon monoxide detector

Item No: 580200

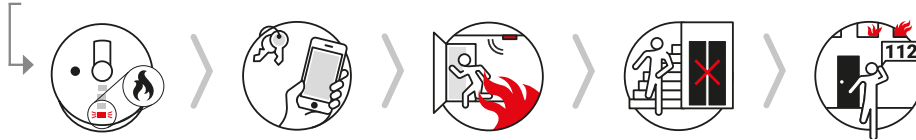
Multisensor Plus kitchen

Multifunctional radio, heat & carbon monoxide detector

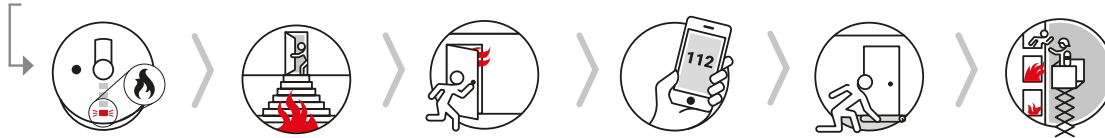
Item No: 580250



Fire in the flat



Fire in the house



Carbon monoxide in the home



Congratulations on your Multisensor Plus!

© 2024 **FireAngel**.

This product is **manufactured by FireAngel Safety Technology Limited** and imported to EU by FireAngel Safety Technology Europe B.V..

For information about Techem's services, please visit the internet at: www.techem.com/re/de/digital-services/warmmelder-multisensorgeraet



All rights reserved.
This is the original instruction manual

The Multifunctional Smoke Alarm → „**Multisensor Plus,**“ manufactured by FireAngel, has been installed at your premises. It offers increased safety over a standard smoke alarm through numerous additional functions and value-added services.

An overview of the optional value-added services, as well as FAQs and further information, can be found at → <https://techem.com/qref/msd-manual> Alternatively, you can use the → **QR code shown here** or the one located on the front of the device.

This alarm must be installed by a qualified person capable of installing it in accordance with the instructions. **Please keep this manual in a safe place and read it carefully to use the device as intended.**

In the event of a change of residents, please pass on this manual. The Multisensor Plus is intended solely for private use and is not suitable for commercial purposes.



Table of Contents

<u>Declaration of conformity</u>	<u>4</u>
<u>Manufacturer</u>	<u>4</u>
<u>Product overview</u>	<u>5</u>
<u>Indicators and controls</u>	<u>7</u>
<u>General information</u>	<u>8</u>
<u>Grouping</u>	<u>9</u>
<u>Safety instructions</u>	<u>10</u>
<u>Fire safety guidelines</u>	<u>11</u>
<u>Proactive Safety Measures</u>	<u>11</u>
<u>Behaviour in case of fire</u>	<u>11</u>
<u>Carbon monoxide (CO) - important guidelines</u>	<u>12</u>
<u>Function Check and Cleaning</u>	<u>14</u>
<u>Function check</u>	<u>14</u>
<u>Cleaning</u>	<u>16</u>
<u>Demounting and Reassembly Instructions During Renovation</u>	<u>16</u>
<u>Demounting</u>	<u>16</u>
<u>Reassembly</u>	<u>16</u>
<u>False alarm</u>	<u>17</u>
<u>Common causes of false alarms</u>	<u>18</u>
<u>Troubleshooting</u>	<u>18</u>
<u>Distance control</u>	<u>20</u>
<u>Configuration of room climate data and ventilation advice</u>	<u>22</u>
<u>Activating climate data transfer (on/off)</u>	<u>22</u>
<u>Activating the ventilation advice LED (on/off) for the ventilation advice</u>	<u>23</u>
<u>Technical data</u>	<u>25</u>

Declaration of conformity








Multifunctional wireless smoke alarm device „Multisensor Plus“ and „Multisensor Plus Kitchen“

By affixing the CE mark to this product, the manufacturer assumes responsibility for compliance with all applicable European health, safety, performance and environmental requirements.

The complete part of the EU Declaration of Conformity is available at the following internet address:

<https://www.techem.com/de/de/info-und-service/downloads>

Short Declaration









Multisensor Plus 580200	Multisensor Plus kitchen 50250
	
 <p>Certified to DIN SPEC 91388:2019-02 Certificate number: 1772-FIRWM-230444</p>	
 <p>Performance Tested EN 14604:2005+AC:2008 EN 50291-1:2018 BS 5446-2:2003 Electrical safety complied 10 year battery service life</p> 	 <p>Performance Tested EN 50291-1:2018 BS 5446-2:2003 Electrical safety complied 10 year battery service life</p> 

Manufacturer







Manufacturer	EU authorised representative
<p>FireAngel® FireAngel Safety Technology Limited</p> <p>Vanguard Centre Coventry CV4 7EZ UK</p>	<p>FireAngel® FireAngel Safety Technology Europe B.V.</p> <p>Concertgebouwplein 15-H, 1071 LL, Amsterdam, Netherlands</p>
Assembled in China	

Product overview



No	Symbol	LED	Designation	Function
1		orange	Ventilation indicator LED	▸ Provides a ventilation indication when relative humidity in the room is too high over an extended period
2		white	Assistance light with brightness sensor	▸ Illuminates in the event of an alarm during darkness to aid orientation for a few minutes
3			User button	▸ For muting, testing, or configuring. More information in the chapters „Function Test“ and „Configuration“
4			Heat sensor	▸ For temperature detection in the vicinity of the device (for fire detection due to high temperatures)
5			Smoke inlet opening	▸ Openings through which fire smoke enters the smoke chamber
6			Distance sensors	▸ For checking for obstacles within a 50 cm radius of the device
7		red	Smoke/heat alarm LED	▸ Fire/Smoke warning! Act as described on the cover page. More information in the chapter „Fire Safety Notes“
8		red	CO alarm LED	▸ Carbon Monoxide Warning! Act as described on the cover page. More information in the chapter „Carbon Monoxide (CO) – Important Notes“
9		yellow	Error LED	▸ Indicates device faults and malfunctions. Troubleshooting tips and more information can be found in the chapter „Troubleshooting“
10		green	Power LED	▸ Indicates that the device is ready for operation
11			Signal transmitter output/ acoustic opening	▸ Emits warning tones during an alarm and signal tones during malfunctions
		No built-in camera/no built-in microphone		

Indicators and controls

Symbol	Function	Sound	LED	Operation	Reference/ Chapter
	Normal Operation	No sound	Green: Flashes once per minute	<ul style="list-style-type: none"> ▸ No action required 	
	Smoke/Heat Alarm	1 second warning tone in 2 frequencies, 1 second pause	Red (Smoke/Heat): Flashes for 1 second, then 1 second pause Assistance light	<ul style="list-style-type: none"> ▸ Follow the instructions on the cover page ▸ Identify the source of the alarm, if possible ▸ No operation on the device necessary 	Fire Safety Instructions
	CO Alarm	4 short warning tones in 2 frequencies, 4 seconds pause	Red (CO): Flashes briefly 4 times, followed by a 4-second pause Assistance light in the dark	<ul style="list-style-type: none"> ▸ Follow the instructions on the cover page ▸ Identify the source of the alarm, if possible ▸ No operation on the device necessary 	Carbon Monoxide (CO) – Important Notes
	Malfunction	Short, quiet signal tone	Yellow: Flashing	<ul style="list-style-type: none"> ▸ Resolve the cause of the malfunction if possible, otherwise report a device defect 	Troubleshooting
	Low battery voltage		Yellow: Flashes once per minute	<ul style="list-style-type: none"> ▸ Report a device defect 	Troubleshooting
	Ventilation Indication	No sound	Orange: Flashing	<ul style="list-style-type: none"> ▸ Turn off radiators, open windows wide and ventilate sharply for about 10 minutes ▸ In rooms without windows, open the door to the adjacent room and ventilate there 	
	Function Check by the user	Warning tone	Green: Detector is OK Yellow: Detector detects a malfunction	<ul style="list-style-type: none"> ▸ Press the user button for approx. 3 seconds ▸ Warning tone: Multisensor Plus is OK ▸ No warning tone: refer to troubleshooting 	Function check

General information

Smoke, heat, and carbon monoxide alarms are critical life-saving devices. Legislation mandates that residential properties must install smoke alarms in escape routes and sleeping areas. Should any of these areas lack proper alarm coverage, or if the purpose of a room changes (e.g., converting an office into a nursery), it may be necessary to fit additional units or reposition existing ones. Please contact your property manager or landlord directly for these modifications.

The Multisensor Plus is an advanced smoke alarm that provides additional functionalities beyond standard models. It detects smoke, heat, and carbon monoxide (CO), issuing specific alerts for each hazard. Alerts for smoke/heat and CO are differentiated by unique sound and visual signals on the LED display.

Multisensor Plus Variants



Figure: Kitchen icon

Multisensor Plus (Item No. 580200): Equipped with smoke, heat, and carbon monoxide detection capabilities. This version is intended for general smoke alarm applications and offers enhanced safety features.

Multisensor Plus Kitchen (Item No. 580250): Features heat and carbon monoxide detectors and is specifically designed for kitchen environments where the smoke detection feature is deactivated to avoid false alarms from cooking steam. The models are distinguishable by a stove icon (refer to Figure, right column) and their item number.

In the event of an alarm, an assistance light is activated to aid orientation. Should there be uncertainty about the origin of an alarm, it is prudent to treat it as a genuine fire and/or elevated CO levels. Upon detection of smoke, heat, or CO, the alarm can be temporarily silenced for approximately 15 minutes; by pressing the user button the red LED will continue to flash. If the presence of smoke, heat, or CO persists, the alarm will reactivate.

CAUTION



Do not use perfumes, air fresheners, hair sprays, paint sprays, or other aerosol products near the Multisensor Plus.

The smoke, heat, and carbon monoxide detection sensors are only active when the Multisensor Plus is mounted on the installation plate. This means that a removed (dismounted) device cannot warn of these hazards.

Grouping

Up to ten Multisensor Plus devices can be networked together. This setting is configured during installation and can only be changed by reactivating the devices by service personnel.

Grouping all detectors in an apartment ensures that in the event of an alarm, all detectors will signal acoustically. However, only the Multisensor Plus that detected the smoke, heat, or CO will blink with the red LED.

To silence the alarm tone, the user button on the device can be pressed. If the button is pressed on the detector that detected the alarm condition, the alarm tones of the other networked devices will also be silenced after a short delay. If the button is pressed on a device that did not detect the alarm, all devices will be silent except the one that detected the alarm. The functionality of the grouping may be limited or unavailable in certain structural conditions (for example, with thick walls).

Safety instructions

CAUTION



The sense of smell is not present during sleep. The Multisensor Plus then takes over early warning in case of fire (smoke smell).

In the event of a fire, smoke, heat, and/or carbon monoxide must be able to reach the Multisensor Plus unobstructed. The installation of the detectors has been carried out by trained professionals.

Therefore, the detectors must not be installed at locations other than those specified! Fans or ventilation systems must not be operated in the immediate vicinity of the smoke detector, as air movement can interfere with the penetration of smoke into the smoke detector.

Devices with the kitchen stove symbol cannot detect smoke and are therefore exclusively suitable for use in the kitchen (Item No.: 580250).

- ▶ The battery is permanently installed in the device and is not replaceable. It is designed for a service life of 10 years from the date of activation. The device features battery monitoring and can signal the end of the battery life cycle as a fault. Techem ensures proper disposal.
- ▶ The Multisensor Plus must not be opened, submerged in water (risk of short circuit), destroyed, or disposed of in household waste. Tampering with the device can lead to malfunction.
- ▶ The Multisensor Plus may not be suitable for alerting individuals with limited perception. In this case, contact your landlord or property management.
- ▶ The use of the Multisensor Plus is not a substitute for proper electrical installation, use, and maintenance of fuel-powered devices and heating systems, including appropriate ventilation and exhaust systems and chimney sweeping.



DANGER



If the cause of an alarm is in question, it should be assumed that the alarm is due to an actual fire or elevated CO concentration, and the premises should be evacuated immediately.

Fire safety guidelines

By testing the device, you can familiarize yourself with the alarm tone. In the event of an alarm, all residents should have an escape plan and know how to behave.

Proactive safety measures

- ▶ Always use a protective guard in front of open fireplaces and have chimneys cleaned regularly.
- ▶ Never leave candles burning unattended.
- ▶ Replace worn or damaged sockets, switches, cables, and any cracked or frayed electrical wires and plugs.
- ▶ Avoid overloading electrical circuits.

- ▶ Only use electrical devices and tools that carry a recognized approval mark.
- ▶ Place keys for apartment and front doors within easy reach for all residents, ensuring access to exits even when doors are locked.

Behavior in case of fire

If smoke or fire is detected in the stairwell or hallway outside your apartment:

- ▶ Remain calm.
- ▶ Keep your apartment door closed (but not locked) and seal it with damp towels if possible.
- ▶ Call the fire department (112), provide your name and address including floor number.
- ▶ Make yourself known at an open window.

Carbon Monoxide (CO)- important guidelines

Additional Guidelines:

- › **Immediate Action:** Leave the apartment immediately, taking keys and mobile phone, and close all doors behind you. Do not pack belongings or open windows.
- › **Door Safety:** Do not open any door that feels hot or from which smoke is seeping.
- › **Smoke Navigation:** If smoke has spread, stay close to the floor and crawl to escape the danger area. Breathe in short, shallow breaths or hold your breath.
- › **Apartment Door:** Close your apartment door behind you.
- › **Elevator Caution:** NEVER use elevators when exiting the building!
- › **Assistance:** Help children, the elderly, or disabled individuals to leave the building.
- › **Evacuation:** Evacuate the building if necessary.
- › **Main Entrance:** Leave the front door at ground level wide open.
- › **Emergency Call:** Call the fire department (112), and provide your name and address.
- › **Gather:** Meet with other residents outside the building and check that everyone is present.
- › **Re-entry:** NEVER re-enter a smoke-filled or burning apartment.
- › **Key Handover:** Give your apartment keys to the fire department.

CO is a toxic, non-irritating, colorless, and odorless gas. Due to its properties, it is hardly identifiable. Inhalation of CO can quickly lead to CO poisoning.

The following symptoms may occur in connection with CO poisoning and should be noted by all residents:

- › **Mild Exposure:** Slight headaches, vomiting, fatigue (often described as „flu-like“ symptoms).
- › **Moderate Exposure:** Severe, throbbing headaches, drowsiness, confusion, rapid heartbeat.
- › **Extreme Exposure:** Unconsciousness, convulsions, cardiorespiratory failure, death.

The CO detector monitors the CO concentration in parts per million (ppm) in the air around the detector.

50 ppm

- The maximum allowable concentration for continuous exposure of healthy adults over an 8-hour period (according to the recommendations of the Occupational Safety & Health Administration).

100 ppm

- Mild headaches, fatigue, dizziness, nausea after 2–3 hours.

300 ppm

- Frontal headaches within 1–2 hours, life-threatening after 3 hours.

800ppm

- Dizziness, nausea, and convulsions within 45 minutes. Unconsciousness within 2 hours. Death within 2–3 hours.

- This device is designed to protect individuals from the acute effects of carbon monoxide exposure. It may not protect those who are at additional risk due to age, pregnancy, or health conditions. If in doubt, consult your doctor.
- This device should not be used as a substitute for proper installation, use, and maintenance of fuel-burning appliances, including appropriate ventilation and exhaust systems.
- Common sources of CO include: Blocked chimneys from fireplaces or stoves, gas floor heaters (gas boilers), heating systems, and the operation of charcoal grills, gas stoves, or running engines in enclosed spaces.
- **CO can penetrate walls and ceilings, so the source of the CO leak could be in apartments on other floors, in the basement, or in an adjacent building.**

Further information
[Bundesinstitut für Risikobewertung](http://www.bun.de/bund/bundesinstitut_fuer_risikobewertung)
www.co-macht-ko.de

In case of an alarm:

- ▶ Remain calm and open windows and doors.
- ▶ If quickly and safely possible: eliminate all sources of danger and potential causes (gas supply, flames, etc.).
- ▶ Leave the apartment immediately, taking keys and mobile phone with you, and leave windows and doors open.
- ▶ Evacuate the building if necessary.
- ▶ **NEVER** use elevators when exiting the building!
- ▶ Assist children, the elderly, or disabled individuals in exiting the building.
- ▶ Leave the main door on the ground floor wide open.
- ▶ Call emergency services (112) and request fire and rescue services.
- ▶ Hand over your apartment keys to the fire department.
- ▶ Gather with other residents outside the building and check that everyone is present.
- ▶ Contact the responsible authorities or services (e.g., chimney sweep) to address the issue.
- ▶ Only re-enter the building when it is safe to do so.

CAUTION



A false alarm for CO detection is highly unlikely. Therefore, always take it seriously.

In cases of very high CO concentrations, temporary muting of the Multisensor Plus is not possible. For more information, visit:

www.co-macht-ko.de

Function check and cleaning

Function check

The Multisensor Plus automatically checks its battery capacity, functions, sensors, and the proximity of any obstructions or device coverings at regular intervals.

When Techem is commissioned with the RWM service plus, malfunctions are promptly identified by Techem and remediation is initiated, even if you do not notice or report them yourself.

In addition to automatic function checks, the device manufacturer recommends conducting a manual function check at least once a year to familiarize yourself with the device and its signals.

To do this, press the user button on the front of the device until a beep sounds.

CAUTION



Never use an open flame, smoke, or any other similar means to test the device.

Additionally, during the inspection, ensure that:

- › the casing is undamaged, dust-free, and not dirty,
- › fire smoke can reach the device unhindered,
- › no fluorescent tubes, fireplaces, fans, or ventilation systems have been installed near the device after its initial setup.

Please contact the **hotline at 0800 2001264 (toll-free)**

as soon as possible if:

- › no beep sounds when pressing the user button for more than 5 sec.
- › any deviations from the points mentioned above occur.

A functional test does not trigger a signal tone for all grouped devices. Each device must be tested individually.

If neither Techem nor another service provider has been commissioned to perform the mandatory annual functional check as per the German Institute for Standardization (DIN), it must be carried out manually by you or your landlord.

Cleaning

Never spray the device directly. If necessary, the surface of the Multisensor Plus can be gently wiped with a slightly damp, clean cloth to remove items like spider webs and lint. Do not use cleaning agents, bleach, solvents, or polishes.

Demounting and reassembly instructions during renovation

The device may be dismantled or covered for up to 21 days during renovation works. After this period, it will signal a fault. Once the work is complete, please remount the Multisensor Plus in its original location or remove the cover as soon as possible.

Demounting

1. To remove the Multisensor Plus, turn it counterclockwise (to the left) by hand and pull it down from the mounting plate. **Try not to disassembly the mounting plate itself.**
2. Store the Multisensor Plus in a dust-protected environment (e.g., in a bag).

Reassembly

1. The Multisensor Plus Kitchen must be reassembled in the kitchen.
2. Each Multisensor Plus must be reassembled in its original room on the mounting plate. For better identification, the serial number is printed or stuck on both the mounting plate and the device.
3. Attach the device to the mounting plate and turn it clockwise (to the right) until it stops.
4. After reassembly, the device performs an automatic function check. Please move away from the vicinity of the Multisensor Plus within 10 seconds to avoid being mistakenly detected as an "obstructing object," which could cause the Multisensor Plus to signal a fault.

False alarm

CAUTION



The CO alarm is usually not a false alarm and should therefore always be taken seriously.

If you cannot detect any smoke or fire source, it could be the colorless and odorless gas carbon monoxide (CO). Please check the type of alert (sound and light signal (LED)) on the device, open windows and doors, and identify the source of the alarm, if it is safe to do so.

More information on CO can be found in the section „Carbon Monoxide (CO)- Important Guidelines.“

It may happen that the Multisensor Plus detects smoke or heat even though no smoke or fire is visible.

An alarm should still be taken seriously in every case. If you cannot determine a cause for the alarm, deactivate the alarm by pressing the user button briefly once.

If a false alarm reoccurs after a previous deactivation, please contact the **hotline at 0800 2001264 (toll-free)**.

Common causes of false alarms include:

- › Dust from construction activities such as sawing and grinding or cleaning operations.
- › Water vapor and steam from cooking.
- › Strong temperature fluctuations (leading to condensation of humidity).
- › Heavy tobacco smoke and vapor from electronic cigarettes.
- › Welding, cutting, soldering, and other hot works.
- › Extreme electromagnetic interference.
- › Small insects that have entered the smoke chamber.

Troubleshooting

The Multisensor Plus signals malfunctions with the yellow fault LED and with sound signals. If malfunctions occur in the Multisensor Plus or if the battery voltage is too low, for safety reasons, doors to rooms with functioning smoke detectors should remain open until the functional impairment is resolved.

Causes of malfunctions include:

- › Painting over, taping, or covering the Multisensor Plus.
- › Demounting for longer than 21 days.
- › Objects within the area checked by distance control.
- › Device defect.

Note: Simple causes (see the first three items) can usually be resolved by the user.

- For more information on Demounting, refer to the section „Demounting & Remounting during Renovation“.

The acoustic fault signal can be silenced for one day by briefly pressing the user button. The yellow LED will continue to blink. The malfunction must be resolved in any case.

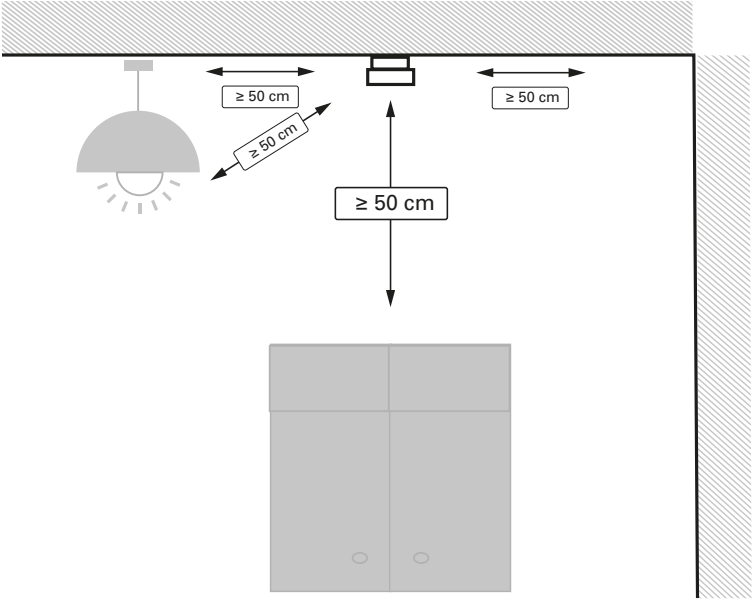
If you are unable to resolve the cause of the malfunction, please call the **hotline at 0800 2001264 (toll-free)** as soon as possible. To best assist you, it is helpful if you are near the affected Multisensor Plus when you call.

Remark

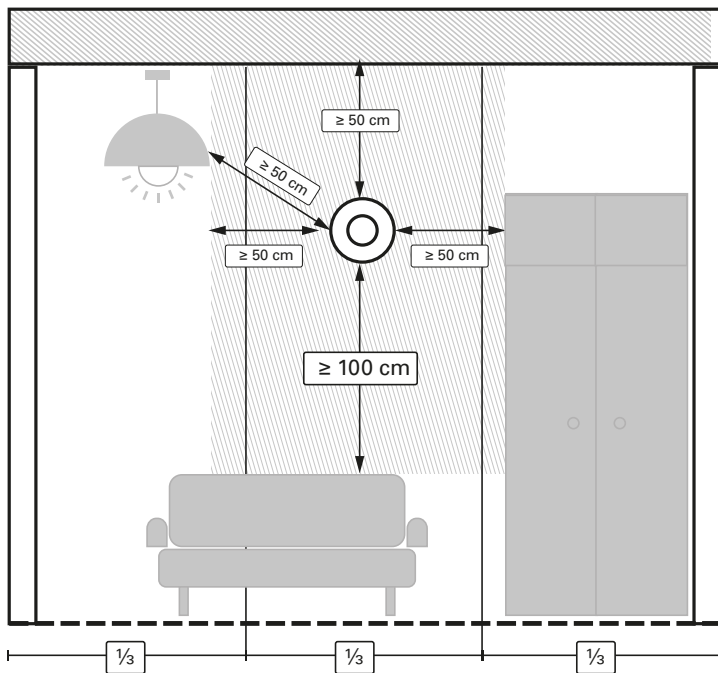
Severe functional disruptions of the Multisensor Plus cannot be fixed by the user.

Do not attempt to repair defective Multisensor Plus devices, as this is not possible and can lead to electric shock or malfunction. A persistent device defect requires professional replacement by Techem.

Distance control



Fire smoke must be able to reach the Multisensor Plus unobstructed. Normally, obstacles and objects should be at least 50 cm away from the device. Obstacles and furnishings added later that are closer than this distance are detected and signaled as a disturbance by the Multisensor Plus.



If it is not possible to mount the Multisensor Plus on the ceiling, an alternative is to install it on the wall. For **wall mounting**, a consistent clearance of **at least 50 cm** around the device and into the room is required.

CAUTION



If a change in the installation location is necessary, for example, due to changes in the furnishings or structural modifications, please contact the landlord or building management.






Configuration of room climate data and ventilation advice

Activating Climate data transfer (on/off):

The Multisensor Plus continuously measures the temperature and humidity in your rooms, thus assisting you in optimizing your indoor climate. To use a climate service app, it is necessary to activate the

transmission of climate data.

Note: When the Multisensor Plus is initially set up, climate data transfer is disabled by default on the device.


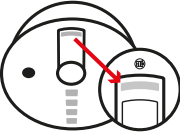



Step 1	Step 2	Step 3 (if necessary)	Step 4
			
<p>▶ Start configuration mode</p>	<p>▶ Start climate data transfer</p>	<p>▶ Adjust climate data transfer</p>	<p>▶ Maintain settings for climate data transfer</p>
<p>▶ Briefly double-click the user button 3 on the device.</p> <p>▶ You are now in: Configuration Mode/Turn On Climate Data Transmission</p>	<p>▶ The yellow LED with the  signals for 0.5 seconds that data transfer is disabled.</p> <p>▶ A brief flash of 0.1 seconds indicates that it is NOT disabled.</p> <p>▶ The LED signaling repeats once per second.</p>	<p>▶ Hold the user button 3 for 3 seconds to toggle between „On“ and „Off.“</p>	<p>▶ A short click on the user button 3 will retain your current setting.</p> <p>▶ if no action is taken, you will automatically exit the configuration mode after 60 seconds, and your last setting will be maintained.</p>
<p>▶ NOTE: The device must be mounted on the ceiling or the wall.</p>			<p>▶ NOTE: The configuration can be repeated at any time.</p>

Activating the ventilation advice LED (on/off) for the ventilation advice:

The Multisensor Plus features a ventilation advice LED display for ventilation advice. It provides guidance to help you achieve an optimal indoor climate for your well-being through targeted ventilation.

NOTE:

- ▶ For product description, see page 5.
- ▶ Further details on the next page.

Step 1	Step 2	Step 3 (if necessary)	Step 4
			
<p>▶ Start configuration mode</p>	<p>▶ Start ventilation advice</p>	<p>▶ Adjust ventilation advice</p>	<p>▶ Maintain settings for ventilation advice</p>
<p>▶ Double-click the user button 3 on the device twice briefly.</p> <p>▶ You are now in: Configuration mode: Turn the ventilation advice LED on/off for the ventilation advice.</p>	<p>▶ The orange LED with the  -symbol flashes for 0.5 seconds to indicate that the ventilation advice is turned on.</p> <p>▶ A brief flash of 0.1 seconds indicates that it is NOT disabled.</p> <p>▶ The LED signaling repeats once per second.</p>	<p>▶ Hold the user button 3 for 3 seconds to toggle between „On“ and „Off.“</p>	<p>▶ A short click on the user button 3 will retain your current setting.</p> <p>▶ if no action is taken, you will automatically exit the configuration mode after 60 seconds, and your last setting will be maintained.</p>
			<p>▶ NOTE: The configuration can be repeated at any time.</p>

The Multisensor Plus measures relative humidity and room temperature with sensors. The device uses these readings to signal if there is prolonged excessive relative humidity. An orange LED on the device front then displays a ventilation advice alert to help prevent potential mold growth.

It is possible to receive even more precise advice for optimal room climate through value-added services. The Multisensor Plus is used as a room climate sensor for this purpose.

You can activate or deactivate the collection and transmission of your room climate data, as well as the signaling of the ventilation advice on the device.

Double-clicking (pressing the user button twice briefly) starts the configuration mode.

You automatically start in the configuration of climate data collection. Here, you can choose whether the Multisensor Plus should collect and transmit your climate data for analysis or not.

If data collection and transmission are turned on, the yellow LED with the ⓘ- symbol blinks for 0.5 seconds. If data collection and transmission are turned off, it blinks for only 0.1 seconds, which is noticeably shorter.

You can toggle the „on/off“ setting by holding the user button for 3 seconds.

You can access the ventilation advice configuration by double-clicking the user button again. Here, you can choose whether the Multisensor Plus should provide ventilation tips by lighting up the orange LED. **This function is available even if the transmission of climate data is turned off.**

If the ventilation recommendation is turned on, the orange LED ⓘ blinks for 0.5 seconds. If it is turned off, it blinks for only 0.1 seconds, which is significantly shorter.


You can change the setting by holding the user button for 3 seconds.

To exit the configuration mode and save the setting: Press the user button briefly.

If no button is pressed for 60 seconds, you automatically exit the configuration mode and your last setting is saved. You can restart the process at any time.

Technical data

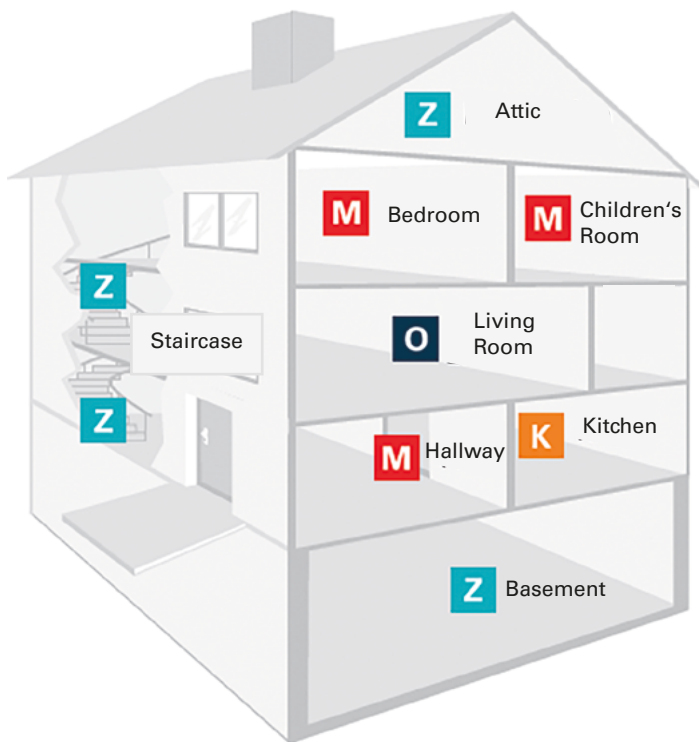
Version	Multisensor Plus	Multisensor Plus Kitchen
Type	Techem Smart System remote inspectable alarm Type C, in accordance with DIN 14676-1	Techem Smart System remote inspectable alarm Type C
Sensors	<ul style="list-style-type: none"> ▸ Smoke detection: Photo-optical scattered light method ▸ Heat detection: Thermistor (Class A1) ▸ CO-detection: Carbon monoxid sensor (Type B) ▸ Temperature and relative humidity measurement: Temperature/humidity sensor 	<ul style="list-style-type: none"> ▸ Heat detection: Thermistor (Class A1) ▸ CO-detection: Carbon monoxid sensor (Type B) ▸ Temperature and relative humidity measurement: Temperature/humidity sensor
Function check	<ul style="list-style-type: none"> ▸ Automatic, remotely retrievable via radio interface (not perceptible) ▸ Manual, via user button operation 	
Acoustic alert	<ul style="list-style-type: none"> ▸ In case of fire/carbon monoxide alarm: at least 85 dB(A) ▸ In case of manual test: approximately 75 dB(A) ▸ In case of fault indication: approximately 75 dB(A) 	
Environment and permeability check	<ul style="list-style-type: none"> ▸ Regular and automatic checks ▸ Covers ▸ Obstacles within 50 cm of the device 	
Alarm conditions for CO detector	For CO exposure: <ul style="list-style-type: none"> ▸ 50 ppm: between 60–90 minutes ▸ 100 ppm: between 10–40 minutes ▸ 300 ppm or more: within 3 minutes 	

Version	Multisensor Plus	Multisensor Plus Kitchen
Maximum service life	10 Jahre (+ 6 months)	
Power supply	<ul style="list-style-type: none"> ▸ Permanently installed non-replaceable long-life lithium battery ▸ Battery life: 10 years + 1 year reserve 	
Compliance	EN 14604 2005 + AC 2008 (CE); DIN 14676-1 2018 according to EN 50291-1 2018; BS 5446-2 2003	EN 50291-1 2018; BS 5446-2 2003
Operating temperature	-10 bis 40 °C	
Operating humidity	0 % bis 90 % relative humidity	
Radio frequency	869,775 MHz 869,925 MHz 868,95 MHz	
Radio independently tested according to	EN 301 489-1; EN 301 489-3; EN 300 220-2	
Maximum RF power	14 dBm (25 mW)	
Laser (for environment monitoring)	Class 1 according to EN 60825-1:2022-07 	
Dimensions (D x H):	135 mm x 72 mm (including mounting plate)	

FAQs, the user manual in other languages as a PDF, and additional information can be found via the QR code on the device or at [Multisensor Plus](#)

Functions of the Device Variants		
	Multisensor Plus	Multisensor Plus Kitchen
Smoke Detector	X	
Heat Detector	X	X
Carbin Monoxid Detector	X	X
Optimized Alarm Tone	X	X
Ventilation Advice	X	X
Assistance Light	X	X
Grouping	X	X
Optional Value-Added Services	X	X

M	Legally Required Minimum Protection
O	Optimal Protection (Legally Required Minimum Protection in Berlin and Brandenburg)
K	Kitchen Protection
Z	Additional Protection





Techem Hotline – Available 24/7
08002 001264 (toll-free)

This is an electronic item with a built-in battery. **The device must not be disposed of with household waste.** Techem will ensure proper disposal.



Copying and reproducing this document is prohibited without the express written permission of the copyright holder. Any violation of this requirement may result in legal action and will be prosecuted if necessary. All rights reserved.

Techem Energy Services GmbH
Hauptstraße 89 · D-65760 Eschborn · www.techem.de
Assembled in China

FireAngel

This product is **manufactured by FireAngel Safety Technology Limited** and imported to EU by FireAngel Safety Technology Europe B.V. .