

Multisensor Plus

Multisensor Plus

Multifunctional Radio, Smoke, Heat, & Carbon Monoxide Detector
with Ventilation Guidance

Item No: 580200

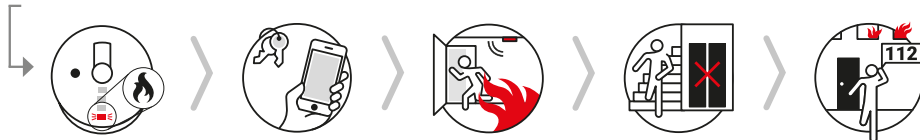
Multisensor Plus Kitchen

Multifunctional Radio, Heat & Carbon Monoxide Detector
with Ventilation Guidance

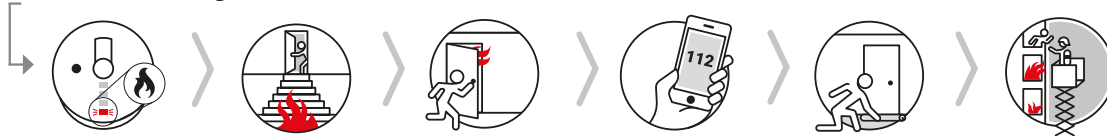
Item no.: 580250



Fire in the Residence



Fire in the Building



Carbon Monoxide in the Residence



Congratulations on your Multisensor Plus!

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

For information about Techem, visit: **www.techem.de**



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This is the original user manual.

The FireAngel → **Multisensor Plus** with ventilation guidance has been installed in your residence. With its numerous additional functions and optional value-added services, it provides enhanced safety features beyond a standard smoke alarm.

For an overview of optional value-added services, FAQs and additional information, please visit: → **<https://techem.com/qref/msd-manual>** or scan the → **QR code** shown on the left.

This warning device must be installed by a qualified person capable of following the installation instructions to comply with applicable standards. **Please keep this user manual in a safe place and read it carefully to ensure proper use of the device.**

When residents change, please pass on this user manual. The Multisensor Plus is intended exclusively for residential use and is not suitable for commercial applications.



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Declaration of Conformity

Multisensor Plus

Multifunctional Radio Smoke, Heat, & Carbon Monoxide Detector
with Ventilation Guidance

Multisensor Plus Kitchen

Multifunctional Radio Heat & Carbon Monoxide Detector
with Ventilation Guidance

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>

Declaration of Conformity (Simplified)

Multisensor Plus 580200	Multisensor Plus Kitchen 580250
 2531 EN 14604:2005+AC:2008 Smoke Alarm Devices FSTDOP24011	
 Certified to DIN SPEC 91388:2019-02 Certificate number: 1772-FIRWM-230444	
 Performance Tested • EN 14604:2005+AC:2008 • EN 50291-1:2018 • BS 5446-2:2003 • Elektrische Sicherheit Erfüllt • 10 Jahre Batteriebensdauer	 Performance Tested • EN 50291-1:2018 • BS 5446-2:2003 • Elektrische Sicherheit Erfüllt • 10 Jahre Batteriebensdauer

Manufacturer

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

Product Overview



No.	Symbol	LED	Designation	Function
1		orange	Ventilation Alert LED	▸ Provides on-device ventilation guidance when relative room humidity remains elevated for an extended period
2		white	Orientation Light	▸ Illuminates during alarm conditions for several minutes to aid evacuation
3			Control Button	▸ For muting, testing and configuration. ▸ See chapters 'Operational Testing' and 'Room Climate Data and Local Ventilation Alert LED Configuration'
4			Heat sensor	▸ For temperature monitoring in device vicinity (Fire detection triggered by high temperatures)
5			Smoke entry ports	▸ Openings allowing smoke to enter detection chamber
6			Distance sensors	▸ Monitors for obstacles within 50 cm of device
7		red	Smoke/Heat Alarm LED	▸ Fire/Smoke Alert! Follow Instructions on cover ▸ See chapter 'Fire Safety Guidelines'
8		red	CO Alarm LED	▸ Carbon Monoxide Alert! Follow instructions on cover ▸ See chapter 'Carbon Monoxide (CO)- Essential Information'
9		yellow	Fault LED	▸ Indicates device faults and malfunctions ▸ See chapter 'Troubleshooting'
10		green	Status LED	▸ Indicates device is operational
11			Signal transmitter output/ Acoustic Opening	▸ Emits warning tones during alarms and fault signals
		No camera installed/No microphone installed		

Signal Overview

Symbol	Function	Sound	LED Indication	Operation	Reference/Chapter
	Normal Operation	None	Green: pulses once/minute	▸ No action required	
	Smoke/Heat Alarm	1 second warning tone in dual frequencies, 1 second pause	Red (Smoke/Heat Alarm): Flash 1s on/1s off, dual-tone alarm	▸ Follow safety instructions on cover ▸ Identify alarm source if safe ▸ No device operation needed	Fire Safety Guidelines
			Orientation Light		
	CO Alarm	4 short warning tones at dual frequencies, 4 second pause	Red (CO): 4 quick flashes, 4 second pause	▸ Follow safety instructions on cover ▸ Identify alarm source if safe ▸ No device operation needed	Carbon Monoxide (CO) - Essential Information
			Orientation Light		
	Fault	Short, quiet signal	Yellow: flashing	▸ Resolve fault case if possible ▸ Otherwise report device fault	Trouble-shooting
	Low Battery	None	Yellow: flashes once/minute	▸ Report device fault	Trouble-shooting
	On-device Ventilation Alert	None	Orange: flashing	▸ Turn down heating. Open Windows wide. Ventilate for 10 minutes ▸ For rooms without windows, open door to adjacent room	
	Operational Test	Warning tone	Green: Device OK Yellow: Device detects fault	▸ Press Control Button  for approx. 2 seconds Warning tone means: ▸ Multisensor Plus Device is OK No Warning tone: ▸ See Troubleshooting	Operational Testing

General Information

Smoke, heat and carbon monoxide detectors save lives.

Escape routes, bedrooms and living areas in residential units must be equipped with smoke alarms according to legal requirements.

If not all living areas have warning devices and room usage changes (for example, if an office becomes a child's bedroom), additional devices may need to be installed or existing devices relocated.

Please contact your landlord or facility management directly.

The Multisensor Plus is a multifunctional smoke alarm that goes beyond the function of a standard smoke alarm.

It recognises smoke, heat and carbon monoxide (CO) and alarms accordingly. The warning notifications for smoke/heat and CO differ both acoustically and visually on the LED display.

The Multisensor Plus is available in two variants



Figure: Kitchen Icon

Multisensor Plus (Item-No. 580200)

- Features smoke, heat, carbon monoxide, humidity and temperature sensors.
- Suitable for standard residential protection with enhanced safety features.

Multisensor Plus Kitchen (Item-No. 580250)

- Features heat, carbon monoxide, humidity and temperature sensors.
- Specifically designed for kitchen use with deactivated smoke detection to prevent false alarms from cooking vapours.
- Identifiable by kitchen hob symbol and item number.

The Orientation Light activates during alarms to aid evacuation.

DANGER



If there is any doubt about the cause of an alarm, assume it indicates an actual fire and/or excessive CO concentration

When the device detects smoke, heat or CO and sounds an alarm, you can deactivate the warning tone for approximately 15 minutes by pressing the Control Button . → The red LED continues to flash. If smoke, heat or CO is still detected afterwards, the warning tone reactivates.

ATTENTION



Do not use perfume, air fresheners, hair sprays, colour sprays or other aerosols near the Multisensor Plus.

The sensors for smoke, heat and carbon monoxide detection are only active when the Multisensor Plus is mounted on its mounting plate. A dismantled device cannot warn of these hazards.

Grouping

Up to ten Multisensor Plus devices can be connected. This setting is configured during initial setup and can only be changed through recommissioning.

When grouped, all detectors in a residence sound an alarm. However, only the Multisensor Plus that has detected smoke, heat or CO will flash its red LED.

Pressing the Control Button  on the detecting device mutes all connected devices after a brief delay. The networking feature enhances safety by ensuring all residents are alerted.

The networking function is designed for reliable operation under normal conditions. In rare cases, functionality may be limited due to:

- › Unfavourable building conditions (e.g., very thick walls)
- › Large distances between devices
- › Specific technical conditions

Safety Instructions

DANGER



The sense of smell is inactive during sleep. The Multisensor Plus provides early warning of fire through smoke detection.

In case of fire, smoke, heat and/or carbon monoxide must reach the Multisensor Plus unimpeded. The devices have been installed by trained professionals. Therefore, detectors must not be relocated to other mounting positions!

Fans or ventilation systems must not operate in the immediate vicinity of the smoke alarm device, as air movement may prevent smoke from entering the detection chamber.

Devices marked with the kitchen hob symbol cannot detect smoke and are therefore only suitable for kitchen use (Item No.: 580250).

The battery is permanently installed and cannot be replaced. It is designed for 10 years of operation from commissioning.

The device features battery monitoring and can signal end of battery life as a fault. Techem handles professional disposal.

The Multisensor Plus must not be:

- › Opened
- › Immersed in water (risk of short circuit)
- › Destroyed
- › Disposed of in household waste

Device tampering can cause malfunction.

The Multisensor Plus may not be suitable for alerting persons with impaired perception. Please contact your landlord or property management in such cases.

The Multisensor Plus is not a substitute for:

- › Proper electrical installation
- › Proper use and maintenance of fuel-burning appliances
- › Appropriate ventilation and flue systems
- › Regular chimney sweeping

DANGER



If there is any question about the cause of an alarm, assume it indicates an actual fire or elevated CO concentration and evacuate the residence immediately.

Fire Safety Guidelines

The function test familiarizes you with the device's warning tone. In case of alarm, all residents should have an escape plan and know what to do.

Preventive Measures

- Always install appropriate protective screens in front of open fireplaces and have chimneys cleaned regularly.
- Never leave candles burning unattended.
- Replace worn or damaged sockets, switches and cables as well as cracked or worn electrical cables and plugs.
- Avoid overloading power circuits.
- Only use electrical devices and tools that have recognized approval marks.

- Keep keys for flat and building entrance doors readily accessible to all residents so they can exit through locked doors.

Emergency Response

In case of smoke or fire in the stairwell and corridor outside your flat:

- Stay calm!
- Keep your flat door closed (but not locked), seal the door with damp towels if possible.
- Call fire brigade (112), give your name, address and floor number.
- Make yourself visible at an open window.

Otherwise:

- Leave the residence immediately, taking keys and mobile

- phone. Close all doors while leaving. Do not pack belongings, do not open windows.
- › Do not open any door that is hot or has smoke coming from beneath.
 - › If smoke has already spread, stay low to the ground and crawl out of the danger zone. Take short, shallow breaths or hold your breath.
 - › Close the flat door.
 - › NEVER use lifts when evacuating the building!
 - › Help children and elderly or disabled people to leave the building.
 - › Evacuate the building if necessary.
 - › Leave the main entrance door wide open.
 - › Call emergency services (112), give your name and address.
 - › Gather with other residents outside the building and check if anyone is missing.
 - › Under NO circumstances re-enter a smoke-filled or burning flat!
 - › Hand over your flat keys to the fire brigade.

Carbon Monoxide (CO)- Essential Information

- › CO is a toxic, non-irritating, colourless and odourless gas. Due to its properties, it is barely identifiable. Inhaling CO can quickly lead to CO poisoning.
- › The following symptoms may be associated with CO poisoning and should be noted by all residents:
 - › **Mild Exposure:**
 - › Mild headaches, vomiting, fatigue
 - › (Often described as 'flu-like' symptoms)
 - › **Medium Exposure:**
 - › Severe, throbbing headaches
 - › Drowsiness, confusion
 - › Rapid heartbeat
 - › **Extreme Exposure:**
 - › Unconsciousness
 - › Convulsions
 - › Cardio-respiratory failure
 - › Death

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

50 ppm

- Maximum permissible concentration for continuous exposure of healthy adults over 8 hours (per Occupational Safety & Health Administration).

100 ppm

- Mild headache, fatigue, dizziness, nausea after 2-3 hours.

300 ppm

- Severe headache 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 acute effects of carbon monoxide exposure. It may not protect people who are at additional risk due to age, pregnancy or health condition. 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 flue systems.
- *Common sources of CO:* Blocked chimney of fireplaces or stoves, gas heating (boilers), heating systems and operation of charcoal grills, gas cookers, running engines in enclosed spaces.
- **CO can penetrate walls and ceilings, so the source of CO leakage may also be in flats on other floors, the basement or adjacent buildings**

Further Information:

Federal Institute of Risk Assessment
([Bundesinstitut für Risikobewertung](https://www.bfz.bund.de/Bundesinstitut_f%C3%BCr_Risikobewertung))
www.co-macht-ko.de

In case of alarm:

- › Stay calm, open windows and doors.
- › If quickly and safely possible: eliminate all sources of danger and potential causes (gas supply, flames, etc.).
- › Leave the flat immediately, take keys and mobile phone, keeping windows and doors open.
- › Evacuate the building if necessary.
- › NEVER use lifts when evacuating the building!
- › Help children and elderly or disabled people to leave the building .
- › Leave the main entrance door wide open.
- › Call emergency services (112), give your name and address.
- › Hand over your flat keys to the fire brigade.
- › Gather with other residents outside the building and check if anyone is missing.
- › Consult the relevant authorities or organisations (e.g. chimney sweeps) to rectify the problem.
- › Only re-enter the building when the danger has passed.

DANGER



A false alarm when the CO alarm sounds is very unlikely. Therefore, always take them seriously.

In the case of very high CO concentrations, it is not possible to temporarily mute the multisensor plus.

Further information can be found at:

www.co-macht-ko.de

Operational Testing and Cleaning

Operational Testing

The Multisensor Plus automatically checks its battery capacity, functions, sensors and the distance to obstacles in the vicinity of the device and any device covering at regular intervals.

If you commission Techem with the Smoke Alarm Service Plus, Techem will promptly identify and initiate rectification of faults, even if you do not notice or report them yourself.

In addition to automatic operational testing, the device manufacturer recommends performing a manual operational test at least once a year to familiarise yourself with the device and its signals.

To do this, press the Control Button  on the front of the device so that a signal tone sounds.

DANGER



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

During the check, also verify whether

- › the housing is undamaged, dust-free and clean,
- › smoke can reach the device unhindered,
- › retrofitted fluorescent tubes, fireplaces, fans, or ventilation have been installed near the device.

Please contact the **Techem Hotline 0800 2001264 (free of charge)** as soon as possible if:

- › No signal tone sounds for longer than 5 seconds when pressing the Control Button ,
- › Any deviations from the above points occur.

An operational test does not trigger a signal tone for all connected devices. Each device must be tested individually.

If neither Techem nor another service provider has been commissioned to perform the mandatory operational check required at least annually according to the German Institute for Standardisation (DIN), this must be done manually by you or your landlord.

Cleaning

- ▶ Never spray the device directly. If necessary, the surface of the Multisensor Plus can be carefully wiped with a slightly damp, clean cloth to remove cobwebs and dust, for example.
- ▶ Do NOT use cleaning agents, bleaches, solvents or polishes.

Dismounting und Mounting During Renovation

- ▶ The device may be dismounted or covered during renovation work *for a maximum of 21 days*.
- ▶ After this period, fault signalling will occur.
- ▶ Once work is completed, please return the Multisensor Plus to its original position or remove the cover as quickly as possible.

Dismounting

1. Turn the Multisensor Plus anticlockwise (to the left) by hand and pull it downwards from the mounting plate.
If possible, never remove the mounting plate.
2. The Multisensor Plus must be stored protected from dust (e.g. in a bag).

Mounting

1. The Multisensor Plus Kitchen must be mounted in the kitchen again!
2. Each Multisensor Plus must be remounted in its original room on the mounting plate. The serial number is printed or affixed to both the mounting plate and device for better identification.
3. Place the device on the mounting plate and turn it clockwise (to the right) until it stops.

4. After mounting, the device performs an automatic function test. Please move away from the immediate vicinity of the Multisensor Plus after 10 seconds at the latest to avoid being incorrectly identified as an 'interfering object' and the Multisensor Plus signalling a fault.

False alarm

DANGER



The CO alarm is generally not a false alarm and should therefore always be treated seriously.

If you cannot detect a source of smoke or fire, it may be the colourless and odourless gas carbon monoxide (CO).

Please check the type of alarm (sound and light signal (LED)) on the device, open the windows and doors and- if it is safe to do so- determine the source of the alarm.

More information on CO in the chapter '*Carbon Monoxide (CO) - Essential Information*' (page 12).

It can happen that the Multisensor Plus detects smoke or heat even though no smoke or fire can be recognised. Nevertheless, an alarm should always be taken seriously.

If you cannot determine the cause of the alarm, deactivate it by briefly pressing the Control Button  once.

If a false alarm occurs again after previous deactivation, please contact the

Techem Hotline 0800 2001264 (free of charge).

Common Causes of False Alarms:

- Dust from construction work such as sawing and sanding or cleaning work
- Water vapour and steam from cooking.
- Strong temperature fluctuations (= condensation of air humidity).
- Strong tobacco smoke and vapour from e-cigarettes.
- Welding, cutting, soldering and other hot work.
- Extreme electromagnetic effects.
- Small insects that have entered the smoke chamber.

Troubleshooting

The Multisensor Plus signals faults with the yellow fault LED  and with sound signals. If faults occur with the Multisensor Plus or if the battery voltage is too low, the doors to rooms with functioning smoke alarms should remain open for safety reasons until the malfunction has been rectified.

Causes of faults are:

- Painting over, masking or covering the Multisensor Plus.
- Dismounting longer than 21 days.
- Objects within the area checked by distance control.
- Device fault.

Note:

simple causes (see the first three listed) can usually be resolved by the user.

- → More information on dismantling in the chapter '*Dismounting & Remounting During Renovation*' (page 16).

- The audible fault signal can be muted for one day by briefly pressing the Control Button  once.
- The yellow LED continuous to flash.
- The fault must be rectified in any case.

Notice

Serious malfunctions of the Multisensor Plus cannot be remedied by yourself.

Do not attempt to repair defective Devices, this is not possible and can lead to an electric shock or to malfunction.

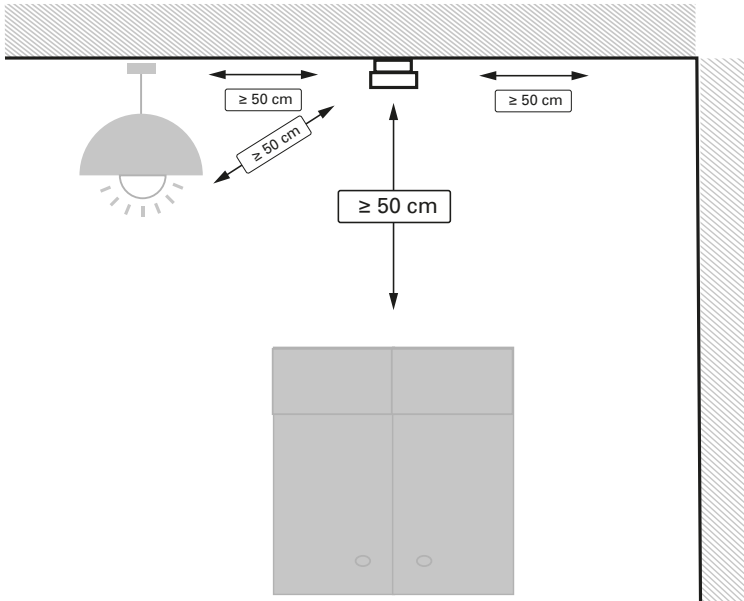
A persistent device defect requires a professional replacement by Techem.

If you are unable to rectify the cause of the fault, please contact the

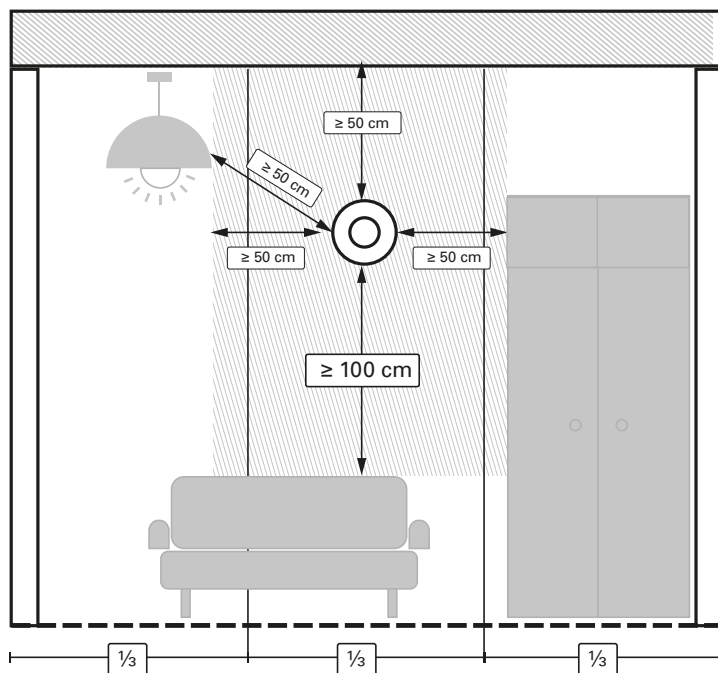
**Techem Hotline 0800 2001264
(free of charge)**

So that our Service Team can help you in the best possible way, it is advantageous if you are located at the affected Multisensor Plus.

Distance Control



- Fire smoke must be able to reach the Multisensor Plus unhindered.
- Obstacles and objects must normally be **at least 50 cm** away from the device.
- Subsequently installed obstacles and furnishings at closer distances are recognised and signalled as a fault by the Multisensor Plus.



If it is not possible to mount the Multisensor Plus on the ceiling, there is the alternative option of mounting it on the wall.

- For **wall mounting** the distance around the device and into the room must be **at least 50 cm**.

ATTENTION



If a change of mounting location becomes necessary, e.g. due to changes in furnishing or structural measures, please contact your landlord or facility management.

Room Climate Data and Local Ventilation Alert LED Configuration

Enable/disable climate Room Climate Data Storage and Transmission:

The Multisensor Plus continuously monitors temperature and humidity in your rooms. This measurement data is processed locally within the device to provide ventilation recommendations. Additionally, you can choose whether to allow this data to be stored

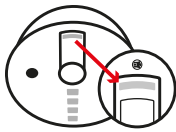
and transmitted for enhanced services. To access value-added services such as the room climate service through the tenant portal¹ or – where provided by your landlord – via an app, you must first enable the storage and transmission of room climate data.

Step 1	Step 2	Step 3 (if required)	Step 4
			
► Start configuration mode for room climate data storage & transmission	► Start room climate data storage & transmission	► Adjust room climate data storage & transmission	► Retain setting for room climate data storage & transmission
► Double-click Control Button  briefly → yellow LED flashes ► You are now in: Configuration mode/room climate data storage & transmission on/off.	► The yellow LED with  - symbol pulsing for 0.5 seconds indicates Data storage & transmission is ON. ► A brief flash of 0.1 seconds indicates Data storage & transmission is NOT switched on.	► Hold Control Button  for 2 seconds to toggle between 'On' and 'Off'.	► A brief Click on Control Button  exits configuration mode. Your last setting is retained. ► Without action, you automatically exit configuration mode after 60 seconds. Your last setting is retained.
► NOTE: The device must be mounted on the ceiling.			► NOTE: Configuration can be repeated at any time.

LED Ventilation Alert Settings:

The Multisensor Plus has a Ventilation Alert LED display **1** for on-device ventilation alert. It provides guidance to achieve the optimum room climate through targeted ventilation.

NOTE: You will find a product description on page 5 and more detailed explanations of these functions on the next page.

Step 1	Step 2	Step 3 (if required)	Step 4
			
► Start configuration mode for on-device ventilation alert	► Start on-device ventilation alert	► Adjust on-device ventilation alert	► Retain setting for on-device ventilation alert
► Double-click Control Button 1 briefly → yellow LED flashes ► Double-click Control Button 1 again → orange LED flashes ► You are now in: Configuration mode/Ventilation Alert-LED on/off 1 for on-device ventilation alert.	► The orange LED with the  -Symbol pulsing for 0.5 seconds indicates on-device ventilation alert is ON. ► A brief flash of 0.1 seconds indicates on-device ventilation alert is NOT switched on.	► Hold Control Button 1 for 2 seconds to toggle between 'On' and 'Off'.	► A brief Click on Control Button 1 exits configuration mode. Your last setting is retained. ► Without action, you automatically exit configuration mode after 60 seconds. Your last setting is retained.
			► NOTE: Configuration can be repeated at any time.

The Multisensor Plus uses sensors to measure relative humidity and temperature in indoor spaces. When humidity remains high for an extended period, the device indicates this through a local ventilation alert shown by the orange LED  on the front of the device. Additionally, optional value-added services are available to receive more precise and individually tailored recommendations for optimal room climate.

You can enable or disable both the storage and transmission of your room climate data, as well as the device's local ventilation alert function:

- ▶ **[1]** Double-click (press briefly twice) the control button  on the device to enter configuration mode.
- ▶ The device automatically starts in the data storage and transmission configuration. Here you can choose whether the continuously measured room climate data should be stored and transmitted for analysis in addition to local processing.
 - ▶ When data storage and transmission is enabled, the yellow LED with the symbol  -Symbol flashes for 0.5 seconds.
 - ▶ When data storage and transmission is disabled, it flashes for only 0.1 seconds, significantly shorter.
 - ▶ To toggle between 'enabled/disabled', press and hold the control button  for 2 seconds.

- ▶ To configure the LED ventilation alert (local device function), tap **[1]** followed by a double-click of the Control Button.  Here you can choose whether the Multisensor Plus should provide ventilation guidance through the orange LED  indicator.

! This local ventilation alert function operates independently from room climate data storage and transmission. It remains available even when data transmission is disabled. The data controlling the ventilation LED is processed internally within the device only - external access is not possible and no data is transmitted to external systems.

- ▶ When the ventilation alert is enabled:
The orange LED  0,5 Sekunden lang flashes for 0.5 seconds
- ▶ When the ventilation alert is disabled:
The orange LED flashes for 0.1 seconds (noticeably shorter)
- ▶ To change this setting, press and hold the control button  for 2 seconds.

To save and exit configuration mode:

- ▶ Press the control button  once briefly.

Note: The configuration mode automatically exits after 60 seconds of inactivity, saving your last setting. You can restart the configuration process at any time.

Technical Specifications

Model Type	Multisensor Plus	Multisensor Plus Kitchen
Design	Techem Smart System remotely inspectable alarm Type C, in accordance with DIN 14676-1	Techem Smart System remotely inspectable alarm Typ C
Sensor Technology	▸ Smoke Detection: photoelectric scattered light method ▸ Heat detection: Thermistor (Class A1) ▸ CO detection: Carbon monoxide sensor (Type B) ▸ Temperature and rel. humidity measurement : Temperature/humidity-Sensor	▸ Heat detection: Thermistor (Class A1) ▸ CO detection: Carbon monoxide sensor (Type B) ▸ Temperature and rel. humidity measurement : Temperature/humidity-Sensor
Function Test	▸ Automatic, remotely accessible via radio interface (not perceptible) ▸ manual, via control button 	
Acoustic Alarm	▸ Fire/Carbon monoxide alarm: minimum 85 dB(A) ▸ Manual test: approx.. 75 dB(A) ▸ Fault indication: approx 75 dB(A)	
Environment and Permeability Check	▸ Regular and automatic checks ▸ Covers ▸ Obstacles in device vicinity up to 50 cm	
CO Alarm Conditions	At CO exposure: 50 ppm: between 60 –90 minutes 100 ppm: between 10–40 minutes 300 ppm and above: within 3 minutes	

Model Type	Multisensor Plus	Multisensor Plus Kitchen
Maximum Service Life	10 years (+ 6 months)	
Power Supply	▸ Built-In, non-replaceable long-life lithium battery ▸ Battery life 10 years + 1 year reserve	
Conformity	EN 14604:2005 + AC:2008; DIN 14676-1:2018; DINSPEC 91388:2019-02; EN 50291-1:2018; BS 5446-2:2003; FSTDOP24011; CE-Declaration of Conformity No. 24035	EN 50291-1:2018; BS 5446-2:2003; CE-Declaration of Conformity No. 24036
Operating Temperature	-10 to 40 °C	
Operating Humidity	0% to 90% relative room 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 Output	14 dBm (25 mW)	
Laser (for environment check)	Class 1 according to EN 60825-1:2022-07 	
Dimensions D x H	135 mm x 72 mm (incl. mounting plate)	

CE conformity according to Directive 2014/53/EU (RED)

FAQs, user manuals in additional languages as PDF and further information can be found via the QR code on the device or at →<https://techem.com/qref/msd-manual>.

Device Variant Functions Table		
Function	Multisensor Plus	Multisensor Plus Kitchen
Smoke alarm	X	-
Heat detector	X	X
Carbon monoxide detector	X	X
Optimised alarm tone	X	X
Ventilation alert	X	X
Orientation Light	X	X
Grouping	X	X
Optional value-added services	X	X

M	Gesetzlich vorgeschriebener Mindestschutz
O	Optimalschutz (in Berlin und Brandenburg gesetzlich vorgeschriebener Mindestschutz)
K	Küchenschutz
Z	Zusatzschutz





Techem Hotline – Available 24/7
08002 001264 (free of charge)

This is an electronic device with a permanently installed battery. **The device must not be disposed of in household waste.** Techem ensures proper disposal.



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Any violation of this requirement may result in legal action and may be subject to criminal prosecution.

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Assembled in China

FireAngel®

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