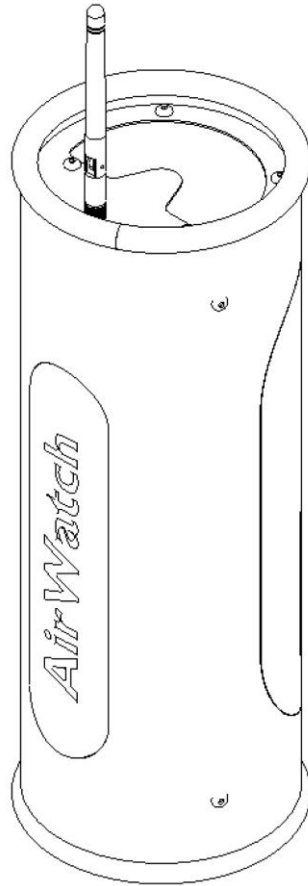




AirWatch

EN – Operating Manual

Typenschild einkleben

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1 General

1.1 Introduction

This manual is an essential aid for the proper and safe operation of the product.

These operating instructions contain important information to ensure safe, proper and efficient operation of the product. Observing these instructions helps avoiding danger, reducing repair costs and downtimes and increasing the reliability and service life of the product. The operating instructions must be kept available at all times and have to be read and applied by every person who is assigned to work on or with the product.

These include amongst others:

- the operation and troubleshooting during operation
- the maintenance (care, maintenance, repair)
- the transport
- the assembly
- the disposal

Technical modifications and errors expected.

1.2 References to copyright and industrial property rights

These operating instructions are to be kept confidential and made accessible only to authorised persons. Disclosure to third parties is only permitted with the prior written consent of the manufacturer KEMPER GmbH.

All documents are protected under the Copyright Act. Any form of disclosure, reproduction, or partial use, as well as the communication of its content, is prohibited without express written permission.

Violations will be prosecuted under criminal law and will incur liability for any resulting damages.

Industrial property rights such as patents, trademarks, or designs are exclusively held by the manufacturer.

1.3 Notes for the operating company

The operating instructions are an essential part of the product.

The operating company must ensure that the operating personnel is aware of the contents of this manual.

Based on national regulations for accident prevention and environmental protection, the operating instructions are to be supplemented by the operating company's own operating instructions, including information on regulatory and reporting requirements to meet specific operating requirements, such as work organisation, work flow and staff employed. In

addition to the operating instructions and the relevant obligatory regulations for accident prevention applicable in the country of use, it is also imperative to comply with the recognised technical rules for safe and professional handling.

Without prior consent from the manufacturer, the operating company may not carry out any changes, conversions or additions to the product which may impair safety. Spare parts used must comply with the manufacturer's specified technical requirements. This is always the case with original replacement parts.

Only use trained and instructed staff for the operation, maintenance, repair and transport of the product. Clearly define for staff who is responsible for operation, maintenance and transport.

2 Safety

2.1 General information

The product is designed and built according to state-of-the-art technology and the recognised safety rules and regulations. When operating the product, technical hazards for the operator or impairment of the product as well as other property may occur, if:

- it is not operated by trained or instructed personnel
- it is not used for the purpose intended and/or
- it is improperly maintained

2.2 Information on signs and symbols

⚠ DANGER

This symbol in conjunction with the signal word "Danger" indicates imminent danger. Non-adherence of the safety note leads to death or serious injuries.

⚠ WARNING

The symbol in conjunction with the signal word "Warning" indicates a potentially dangerous situation. Non-adherence to the safety notice may lead to death or serious injuries.

⚠ CAUTION

The symbol in conjunction with the signal word "Caution" indicates a potentially dangerous situation. Non-adherence of the safety note may lead to slight or negligible injuries.

May also be used for warnings against property damage.

NOTE

The general information is simple additional information which does not warn about personal injury or property damage.

1. Enumerations of action steps are marked as numbers with a dot, where the order is important.
- Bullet points indicate lists of parts in a legend or instructions for which the sequence is unimportant

2.3 Markings/signs to be affixed by the operating company

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such markings and signs might be related, for example, to the requirement for wearing personal protective equipment.

2.4 Safety instructions for operating staff

Before use, the operator of the product must be instructed through information, instructions and training on the handling of the product and the materials and aids to be used.

The product system may only be used in technically perfect condition, for its intended purpose, in full awareness of the safety aspects and potential dangers and in accordance with these instructions. All errors, especially those that may affect safety, must be removed immediately.

Every person who is charged with commissioning, operation or maintenance must have fully read and understood these operating instructions. This specifically applies to staff who only operate the product occasionally.

The operating instructions must always be within reach of the product.

We accept no liability for any damages or injuries caused by failure to observe these operating instructions.

The relevant accident prevention regulations and other generally recognised safety and occupational health regulations must be observed.

The responsibilities for the various activities included in maintenance and repair must be clearly defined and adhered to. Only then will human error - especially in dangerous situations - be avoided.

The operating company is to enforce wearing of personal protective equipment by operating and maintenance staff. These include in particular safety shoes, safety glasses and gloves.

Do not wear loose, long hair, loose clothing or jewellery. In theory, there is a risk of getting caught on something, or being pulled in or dragged along by moving parts.

If there are any safety-related changes to the product, immediately halt the process, secure it and report the occurrence to the relevant authority/person!

Work on the product may only be carried out by reliable, trained staff. Observe the minimum legal age.

Staff who require training, teaching or instructing or staff who undergo a general apprenticeship may only operate the product under the supervision of an experienced member of staff.

2.5 Safety instructions for maintenance/troubleshooting

Service and maintenance doors must be freely accessible at all times.

Setting up, maintenance and repair work and troubleshooting must only be performed when the product is switched off.

Always tighten bolt connections that have been loosened during repair work. If specified, tighten the relevant bolts with a torque wrench.

In particular, protect connections and screw connections from dirt or care products at the beginning of maintenance/repair/care

The time frames for periodic testing/inspections stipulated or specified in the operating instructions must be observed.

Before disassembling, mark the parts that belong together.

2.6 Notes regarding special types of hazard

⚠ DANGER

Danger of electric shock!

Any work on the electrical equipment of the product must only be performed by a qualified electrician or by operating personnel under the direction and supervision of a qualified electrician in accordance with electronic regulations.

Before opening the product, pull the plug, if available, and secure it against accidental switch-on.

For faults with the product's electrical energy supply, immediately switch the product off at the on/off switch and if available, also pull the plug.

Use only original fuses with the prescribed amperage.

Electrical components, on which inspection, maintenance and repair work must be carried out, must be disconnected from the power supply. Secure equipment that has been used for disconnection against unintentional or automatic reconnection. Firstly check that no voltage is present in activated, electrical components, then isolate adjacent components under voltage. When making repairs, ensure that constructive characteristics are not altered in a way that reduces safety.

Check cables regularly for damage and replace if necessary.



CAUTION: Automatically Operated Device –
To Reduce The Risk Of Injury Disconnect From
Power Supply Before Servicing.

WARNING: To Reduce The Risk Of Electric Shock,
Do Not Expose to Water or Rain.

ATTENTION: Appareil fonctionnant automatiquement
– afin de réduire les risques de blessure, débrancher
l'alimentation électrique de procéder à l'entretien.

AVERTISSEMENT: Pour réduire le risque de choc
électrique, ne pas exposer à l'eau ou à la pluie.

⚠ WARNING

Danger from mobile radiation!

Mobile radiation can affect electronic and medical products.

The product:

- Do not use near medical instruments such as pacemakers, insulin pumps and the like.
- Do not use in hospitals, petrol stations and medical facilities
- Do not use near high-precision electronic equipment
- Do not operate near strong electromagnetic fields

3 Product information

3.1 Functional description

The product is intended for monitoring and documenting air quality and dust concentration. Areas of application include production, logistics and warehouses. The sensors in the product measure the air quality and also control the evaluations in the cloud.

The measured values are transmitted to the cloud via a mobile network at a time interval that can be set by the user and can be retrieved using a smartphone, tablet or PC.

The product uses a mobile wireless standard that can be operated worldwide. An adjacent mobile network, radio standard 2G, 3G, 4G is required.

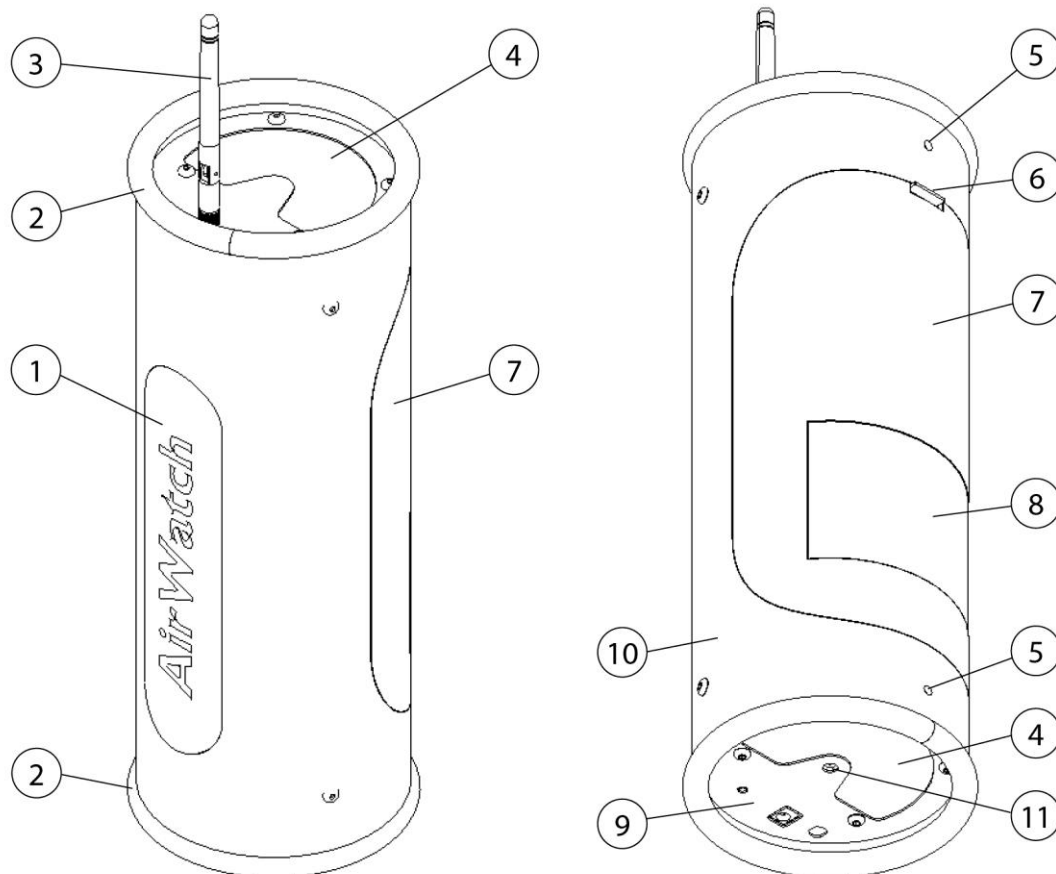


Fig. 1: Product description

Pos.	Description	Pos.	Description
1	Illuminated area	6	Snap-in lock
2	Impact protection	7	Cover
3	Mobile wireless antenna	8	Name plate
4	Vent	9	Connection panel
5	Thread for eyebolt	10	Housing
		11	Tripod thread

Tab. 1: Positions on the product

Dust measurement and data transmission

The product has two dust sensors. The primary sensor is permanently active and transmits the measured values to the control approximately once per second.

The measured values are transmitted to the cloud via a mobile phone network at a time interval that can be set by the user (10–10000 seconds, factory setting 600 seconds).

Colour interpretation of the illuminated surface

The illuminated area (item 1) of the product shows the current dust accumulation up to the set limit value (PM10) in the following colour scale (here, for example, the factory setting of 0–10 mg/m³).

Dust accumulation	Illuminated area
0 mg/m ³	green
5 mg/m ³	yellow
10 mg/m ³	red

Tab. 2: Colour interpretation of the illuminated surface

Exceeding the threshold

If the set PM10 threshold is exceeded, the illuminated area lights up continuously red and the relay on the control board switches. The potential-free contact of the relay can be interrogated externally via the three-pole M8 connection socket of the connection panels, for example to control a general ventilation system.

3.2 Distinguishing feature – cloud connection

Settings and queries:

Some products have a cloud connection, which allows the product software to be kept up to date.

Operating parameters of the product can also be queried and tracked in real time.

Settings and queries are made via the cloud: www.kemperconnect.de

NOTE

Required mobile radio standard

The product uses a mobile wireless standard that can be operated worldwide. An adjacent mobile network, radio standard 2G, 3G, 4G is required.

3.3 Intended use

The product is intended for industrial indoor air monitoring. It provides a permanent and detailed view of the air quality in the workplace. In addition, the product recognises trends and effects of changes through the permanent recording of data. The permanent monitoring of air quality essentially contributes to the health of the employees.

The area of application includes production halls and warehouses in which the ambient air with particulate contamination such as smoke and dust is to be constantly measured.

The product can be connected to general ventilation systems that can be switched on depending on the contamination of the air, thereby maintaining the air quality at an optimum value throughout.

The product is used exclusively for data communication between the product and the machine. Only coded data is transmitted, which is evaluated in a cloud.

Dimensions and further product details which must be observed can be found in the technical data.

NOTE

The information in the chapter Technical data must be observed and strictly adhered to.

Intended use also includes the observation of the instructions and information on

- safety
 - operation and control
 - maintenance and servicing
-

- transport and installation contained in this manual.

Any other use or use going beyond this is considered improper use. The company operating the product is solely responsible for any damage resulting from it. This also applies to unauthorised modifications to the product.

3.4 Ambient conditions

Operation or storage of the device outside the specified area is deemed unintended use and may impair the function, the extraction capacity and the protective effect in accordance with DIN EN ISO 21904. The manufacturer is not liable for any resulting damage.

General:

- Ambient air free from dust, acids, corrosive gases or other aggressive substances.
- Height above sea level: up to 1000 m [3281 ft].
- For accordingly released products only: Indoor or outdoor operation permitted.

Temperature range of the ambient air:

Operating mode	Operation	Transport/ storage
Indoor (Indoor area)	+5 °C to 40 °C [+41 °F to +104 °F]	-20 °C to +50 °C [-4 °F to +122 °F]
Outdoor (For approved products only)	-10 °C to 40 °C [+14 °F to +104 °F]	-20 °C to +50 °C [-4 °F to +122 °F]

Table 3: Temperature range of the ambient air

Relative humidity (non-condensing unless approved otherwise):

- **Indoor:** up to 50% at +40 °C [+104 °F], up to 90% at +20 °C [+68 °F]
- **Outdoor:** up to 100%, including temporary condensation due to weather conditions

3.5 Reasonably foreseeable misuse

No reasonable, foreseeable misuse is possible that could lead to dangerous situations with personal injury when working with the product whilst adhering to its intended use.

The operation of the product in industrial areas that do not comply with the requirements for explosion protection is not permissible. Furthermore, the operation is prohibited for:

1. Processes that are not in the intended use list and in which the extracted air is:
 - mixed with flying sparks, e.g. from grinding and welding processes;
 - mixed with liquids and the resulting contamination of the air flow with vapours containing aerosols and oils;
 - mixed with highly flammable, combustible dusts and/or with substances that can form explosive mixtures or atmospheres;
 - mixed with other aggressive or abrasive dusts;
 - mixed with organic, toxic substances/parts of substances;
2. Outdoor locations where the product is exposed to weather conditions – the product must only be used in closed buildings.

3.6 Markings and signs on the product

Various markings and signs are affixed to the product. If these are damaged or removed, please replace them immediately with new ones in the same location.

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such notes and signs might be related, for example, to the requirement for wearing personal protective equipment.

In the country of use, additional required safety instructions and pictograms can be provided by the manufacturer in accordance with applicable law.

3.7 Residual Risk

Even when all safety rules are observed, when operating the product a residual risk remains, as described below.

All persons working on and with the product must be aware of these residual risks and follow the instructions that prevent these residual risks from causing accidents or damages.

⚠ WARNING

Warning against mobile phone radiation!

Pull out the mains plug before all repair, set-up and maintenance work on the product.

⚠ DANGER

Life-threatening injury due to electric shock!

Pull out the mains plug before all repair, set-up and maintenance work on the product.

Secure the product against unintentional switching on. Put up warning signs.

4 Transport and Storage

4.1 Transport

NOTE

The product must:

- only be transported in the original packaging.
 - not fall.
 - be protected from moisture.
-

4.2 Storage

The product should be stored in its original packaging at an ambient temperature of -20 °C to +50 °C in a dry and clean place. The packaging must not be loaded by other objects.

5 Assembly

Unpacking and assembling the product

Place the product at a location where increased dust exposure is to be expected or where measurement results are to be queried and signalled.

NOTE

Determining the installation location:

- The product must not obstruct anyone in their working area.
- A power supply must be available in the immediate vicinity.
- The illuminated area should be clearly visible.
- The illuminated surface must not dazzle anyone.
- The product must not be exposed to direct water spray.
- Avoid draughts.
- The ventilation grilles of the product must not be covered.
- Only install the product horizontally or vertically. Do not install the product upside down with the mobile phone antenna facing downwards.

Carry out assembly as follows:

Remove the product from its outer packaging.

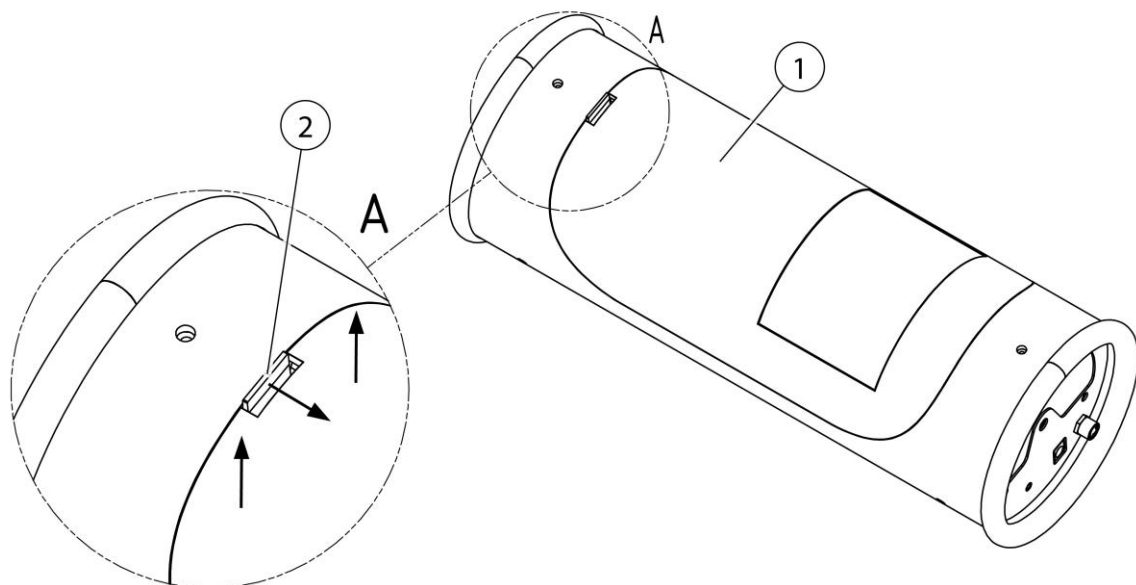


Fig. 2: Unpacking

3. The accessories are located inside the product. To do this, remove the cover (item 1) by operating the catch (item 2).

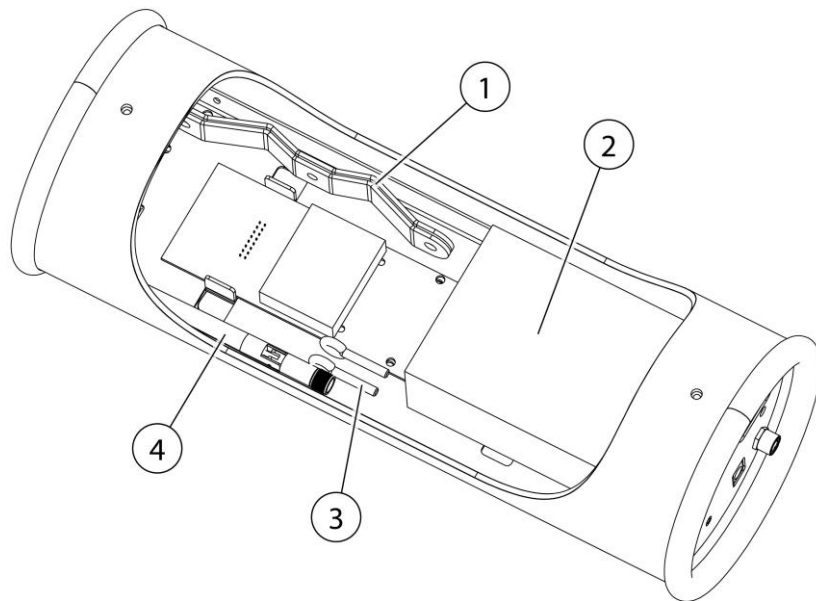


Fig. 3: Scope of supply

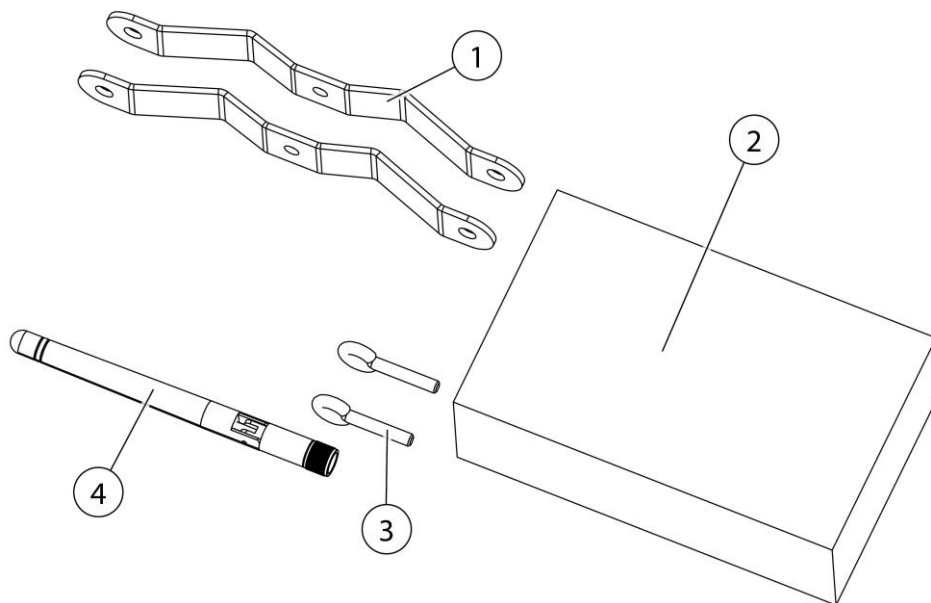


Fig. 4: Scope of supply

Item	Description	Item	Description
1	Mounting bracket (2x)	3	Eyebolt with hexagon nut (2x)
2	Plug-in power supply unit	4	Mobile wireless antenna

Tab. 4: Positions on the product

4. Remove the entire scope of supply and close the product again.

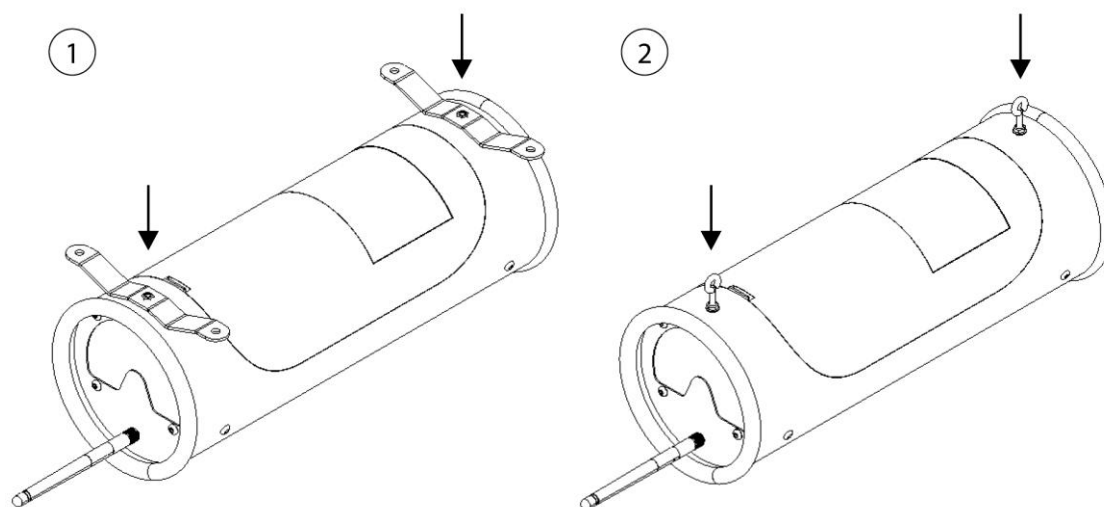


Fig. 5: Mounting variants

NOTE

The scope of supply of the product provides two mounting options.

Variant 1: Mounting with bracket, e.g. mounting on wall, pillar and other straight surfaces.

Variant 2: Mounting with eyebolts, e.g. hanging from the ceiling with rope or pull chain.

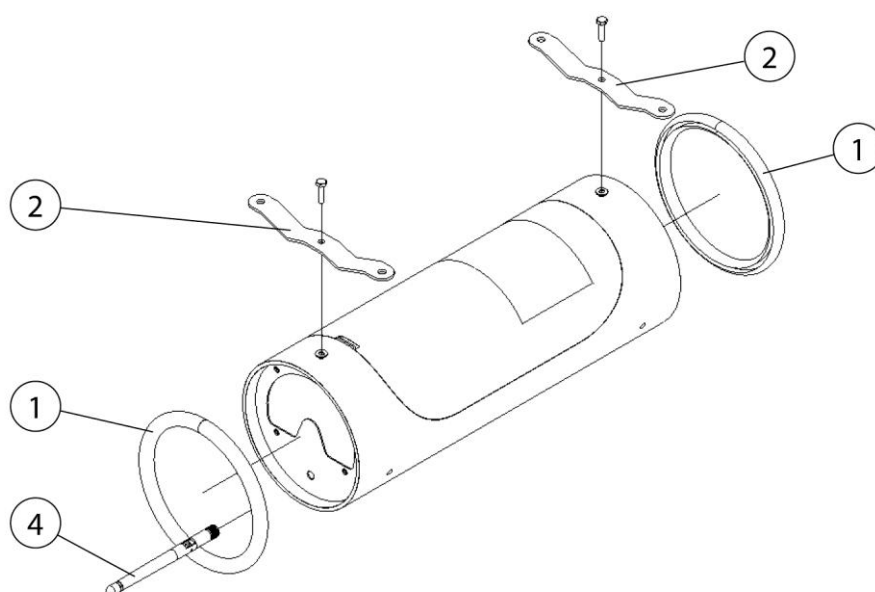


Fig. 6: Mounting (wall mounting)

Item	Description	Item	Description
1	Impact protection (2x)	4	Mobile wireless antenna
2	Retaining bracket (2x)		

Tab. 5: Positions on the product

5. Check that the impact protection on the top and bottom edges of the seat is securely installed.
6. Remove the two hexagon socket screws above and below the product cover with a suitable tool.
7. With **mounting variant 1**, firmly screw the two retaining brackets with the hexagon socket head screws previously removed.
8. With **mounting variant 2**, screw the two eyebolts with locking hexagon nut (scope of supply) into the threads of the previously removed hexagon socket screws. Then tighten the hexagon nuts firmly to lock them.
9. Screw in the mobile radio antenna by hand at the connection socket provided on the product.

Installation location

⚠ WARNING

Serious injuries due to the product falling.

- Only use the supplied or suitable mounting material.
- The installation location should provide sufficient support.

10. For **mounting variant 1** with retaining bracket, mount the product at the selected installation location using suitable screws.
11. For **mounting variant 2** with eyebolts, mount/suspend the product at the installation location using suitable fastening material. Make sure that the product is mounted horizontally.
12. Unpack the plug-in power supply unit and connect the cable to the connection socket provided on the product. To do this, follow the enclosed installation instructions for the plug-in power supply unit.

6 Use

Every person who deals with use, maintenance and repair of the product must have thoroughly read these operating instructions as well as the instructions for any attachment and accessory products and have understood them.

6.1 Qualification of the operating personnel

The operating company of the product may only commission persons to use the product independently if they are well-versed in this task.

Those familiar with this task includes those who have been instructed appropriately in the task and know the operating instructions as well as the operational issues in question.

The product should only be used by trained or instructed personnel. This is the only way to ensure safety and hazard awareness of all personnel during work.

6.2 Operating elements

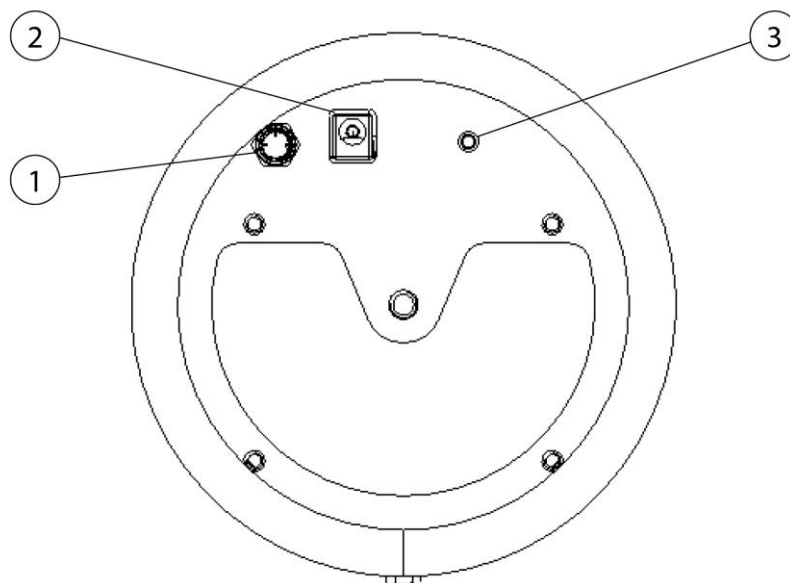


Fig. 7: Operating elements

Item	Description	Item	Description
1	M8 connection socket, external on/off	3	Reset button
2	Connection for plug-in power supply unit		

Tab. 6: Operating elements

Operating controls and connection options are located on the underside side of the product.

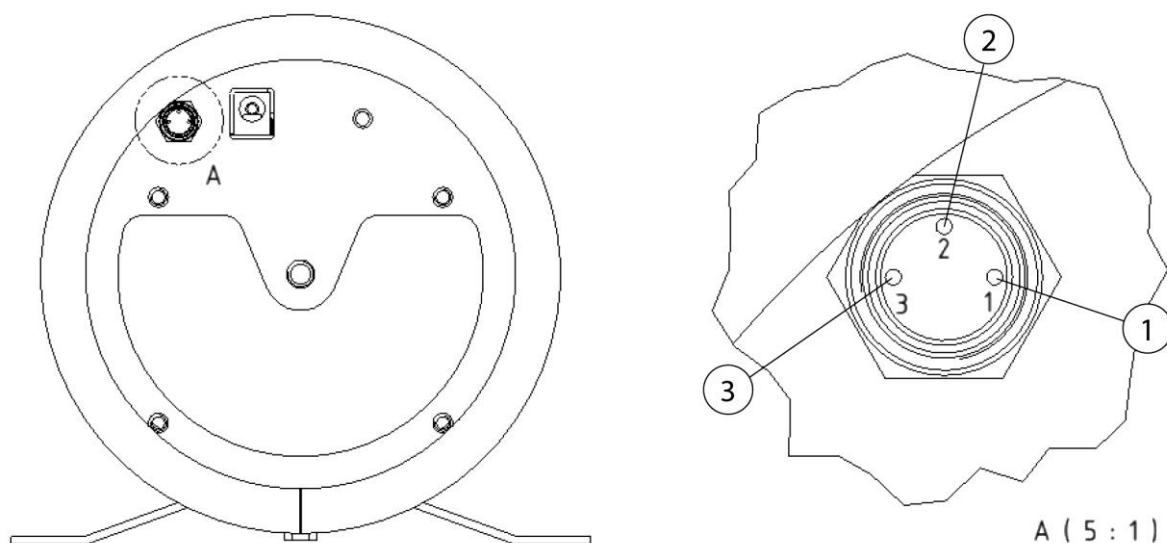


Fig. 8: PIN assignment of M8 connection socket

Item	Description	Item	Description
1	Brown = NC	3	Blue = NO
2	Black = COM		

Tab. 7: PIN assignment of M8 connection socket

The external on/off connection socket on the operating control is used to control a general ventilation system, for example. Please note the PIN assignment of the connection socket.

6.3 Commissioning

1. Connect the cable of the plug-in power supply unit to the intended connection socket of the product.
2. Connect the plug-in power supply unit to the on-site mains connection.
3. The product starts as soon as the illuminated surface flashes briefly in the different colours (red, green, yellow, blue). During the process, the product connects to the local mobile network.
4. After a successful connection, the illuminated area changes to the colour of the currently measured air quality.

NOTE

If necessary, see chapter "Troubleshooting and functional description".

7 Maintenance

The instructions in this chapter are intended as minimum requirements. Depending on the operating conditions, further instructions may be required to keep the product in optimal condition.

The maintenance and repair work described in this chapter must only be performed by specially trained repair personnel of the operating company.

Spare parts used must comply with the manufacturer's specified technical requirements.

This is guaranteed if original spare parts are used.

The safe and environmentally friendly disposal of operating materials and replacement parts must be ensured.

The safety instructions in these operating instructions must be observed during maintenance work.

7.1 Care

The care of the product is essentially limited to cleaning all surfaces of the product and – if present – checking the filter inserts.

The warning notices listed in the chapter "Safety notes for maintenance and fault removal" must be observed.

NOTE

The product may not be cleaned with compressed air. This may result in dust and/or dirt particles getting into the ambient air.

Proper care helps to maintain the product in a continuous functional state.

For optimum care and cleaning of the powder-coated surfaces, the following must be observed:

- Thoroughly clean the product monthly or as needed.
- Clean the exterior areas of the product with a suitable industrial vacuum cleaner of dust classification H or with damp soft cloths/industrial cotton wool.
- For stubborn dirt, use commercially available household cleaners. Avoid vigorous rubbing.
- Do not use any abrasive agents that scratch.
- Do not use any acidic or strongly alkaline cleaning agents.
- Do not use organic solvents containing esters, ketones, alcohols, hydrocarbons or similar.

7.2 Maintenance

Regular inspection and servicing have a positive effect on the reliable functioning of the product.

Observe the warning notices for servicing and troubleshooting in the “Safety” chapter.

The product is maintenance-free; however, air contamination has a negative effect on the sensors in the product.

Contamination of the sensors can lead to a loss of sensitivity and possibly to incorrect measurement results.

The error states and activity of the two sensors are transmitted to the cloud. As soon as both sensors are no longer sending realistic data, the product switches to red flashing. For details, see the “Troubleshooting” chapter.

Changing the sensor board

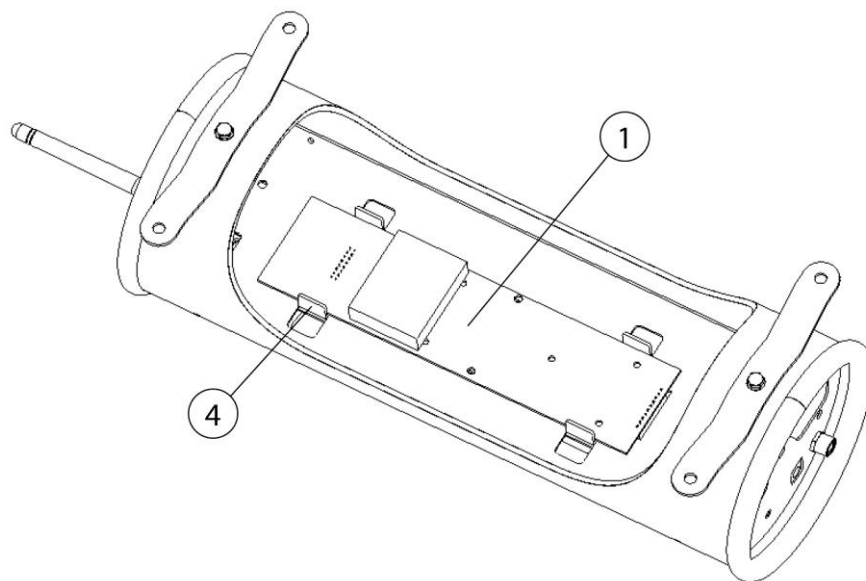


Fig. 9: Sensor board

1. Disconnect the product from the power supply.
2. Press the catch on the cover of the product and remove the cover.

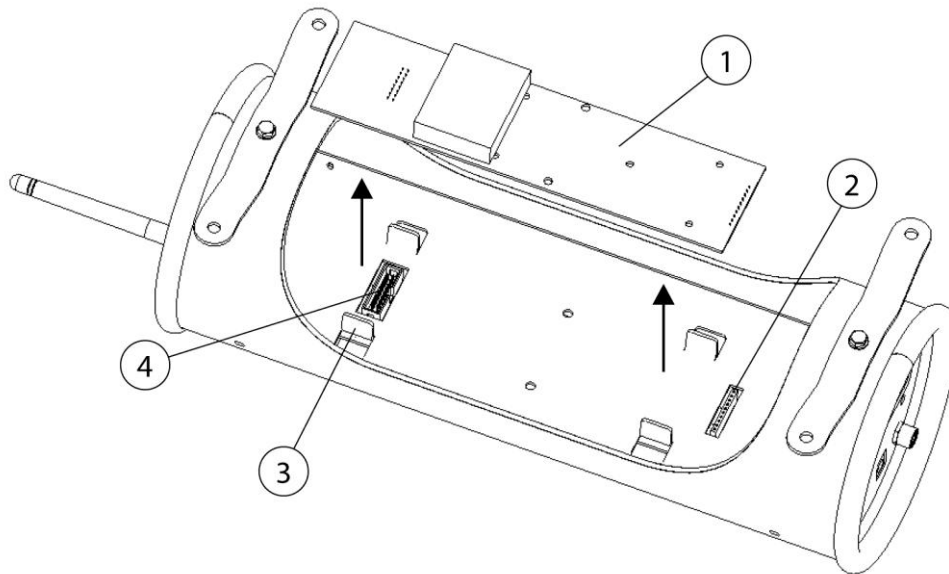


Fig. 10: Changing the sensor board

Pos.	Description	Pos.	Description
1	Sensor board	3	Guide plate
2	Plug connector	4	Plug connector

Table 8: Changing the sensor board

3. Carefully remove the defective sensor board by pulling it evenly and dispose of it in accordance with the applicable regulations.
4. Unpack the new sensor board and insert it carefully. Make sure that the sensor board is guided by the guide plates (Pos. 3) and snaps into the connectors (Pos. 2 + 4).
5. Close the product again with the cover.
6. Reset the maintenance interval: press the button on the side of the product seven times briefly, followed by a long press.
7. Put the product back into operation.
For details, see the "Commissioning" chapter.

7.3 Troubleshooting

Fault	Cause	Note
Product does not switch on LED signal light without function	No power supply available	Check the plug-in power supply unit Check the adapter + connection cable on the product
Product restarts every minute LED signal light flashes red/green/blue	The controller does not receive any data from the sensors	Sensor board defective Sensor board not plugged in correctly. To do this, open the cover on the product and check that the sensor board is seated correctly Press the reset button for 1 second to acknowledge the error
LED signal light flashes red	Both sensors do not provide any measured values	Sensor board defective Sensor board not plugged in correctly Press the reset button for 1 second to acknowledge the error
A section of the LED signal light lights up blue	No mobile wireless connection Interference signals from external devices	Restart product Check the seating of the mobile wireless antenna Check mobile wireless network, change product location if necessary
LED signal light flashes yellow regularly for a few seconds	Maintenance interval reached	Replacing the sensor board, see the "Maintenance" chapter

Table 9: Troubleshooting

8 Disposal

⚠ WARNING

Skin contact with welding fumes, etc. can cause skin irritation in susceptible individuals.

Disassembly work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Serious injury to the lungs and respiratory tract is possible!

In order to avoid contact with and inhalation of dust particles, use protective clothing, gloves and a blower respirator system.

The release of hazardous dust particles must be avoided during dismantling work so that persons in the vicinity are not harmed.

⚠ CAUTION

All work on and with the product must comply with the legal obligations for waste avoidance and proper recycling/disposal.

8.1 Plastics

Plastics, if present, must be sorted as far as possible. Plastics must be disposed of in compliance with the legal requirements.

8.2 Metals

Metals, if present, must be separated and disposed of.
Disposal must be carried out by an authorised company.

8.3 Filter elements

Filter elements, if present, must be disposed of in compliance with the legal requirements.

9 Annex

9.1 EU Declaration of Conformity

Designation:	General ventilation monitoring system
Series:	AirWatch
Type:	390200, 390210 (possibly different article numbers for other product variants)
Machine ID:	(serial number) see the name plate on the product
	This product is developed, designed and manufactured in accordance with EC directives
	2014/53/EU - Radio Equipment Directive
	2014/30/EU - Electromagnetic Compatibility Directive
	2011/65/EU - RoHS Directive
Company:	At the sole responsibility of KEMPER GmbH Von-Siemens-Str. 20, D-48691 Vreden

The following harmonised standards are used:

EN ISO 12100:2010 Safety of machinery - General principles for design

EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments

EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments

ETSI EN 301 489-1 Electromagnetic Compatibility (EMC)

ETSI EN 301 489-52 Electromagnetic Compatibility (EMC)

ETSI EN 301 511 Global System for Mobile communications (GSM)

ETSI EN 301 908-2 IMT cellular networks

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.

Authorised representative:

Kemper GmbH, Von-Siemens-Str. 20, 48691 Vreden, Germany

The aforementioned person is authorised to compile the technical documentation in accordance with Annex VII of Directive 2006/42/EC.

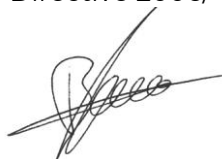
Vreden, 27.02.2026

Place, date

B. KEMPER

CEO

Identification of the signatory



9.2 UKCA Declaration of Conformity

Designation: General ventilation monitoring system
 Series: AirWatch
 Type: **390200, 390210** (possibly different article numbers for other product variants)
 Machine ID: (Serial number) see type plate on product
 This product is developed, designed and manufactured in accordance with the UKCA directives
 Recreational Craft Regulations 2017

The product continues to comply with the provisions of the Electromagnetic Compatibility Regulations 2016

At the sole responsibility of
 Company: **KEMPER GmbH**
 Von-Siemens-Str. 20, D-48691 Vreden

The following designated standards and technical specifications have been applied:

BS EN ISO 12100:2010 Safety of machinery - General principles for design
 BS EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
 BS EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
 ETSI EN 301 489-1 Electromagnetic Compatibility (EMC)
 ETSI EN 301 489-52 Electromagnetic Compatibility (EMC)
 ETSI EN 301 511 Global System for Mobile communications (GSM)
 ETSI EN 301 908-2 IMT cellular networks
 BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

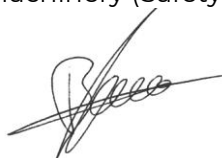
A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
 Additional information:

UK Authorised Representative:
 United Kingdom KEMPER (U.K.) Ltd.
 Venture Court, 2 Debdale Road, Wellingborough, Northamptonshire NN8 5AA
 The above-mentioned person is authorized to compile the technical documentation in Schedule 2 of the Supply of Machinery (Safety) Regulations 2008.

Vreden, 27.02.2026

Place, date

B. Kemper



CEO

Identification of the signatory

9.3 Technical data

Basic data	Technical data	
Type	390200	390210
Dimensions (D x H) mm [in]	128 x 340 [5.04 x 13.39]	
Weight kg [lbs]	2.9 [6]	
Power supply	100–240 VAC, 50–60 Hz	
Power consumption W	10	
Radio standard	2G, 3G, 4G	
Permissible ambient temperature (operation) °C [°F]	+5 to +40 [+41 to +104]	
Measurement range		
Particle size µm	From 0.1	
Dust concentration mg/m ³	0 to approx. 15	
Additional information		
Tripod thread size inch	1/4	

Table 1: Technical data

9.4 Dimensions sheet

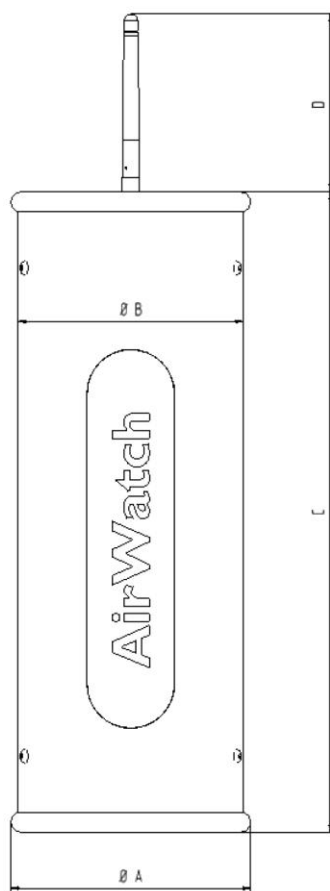


Fig. 11: Dimensions sheet

Symbol	Dimensions mm [in]	Symbol	Dimensions mm [in]
A	128 [5.0]	C	340 [13.4]
B	120 [4.7]	D	160 [6.3]

Tab. 10: Dimensions table

9.5 Spare parts and accessories

Consec. no.	Description	Note	Item no.
1	Impact protection	1x	1400232
2	Plug-in power supply unit + adapter		3605123 + 3605124
3	Mobile wireless antenna		3605170
4	Sensor board		360506301
5	Wall bracket	Accessory	390250
6	Telescopic tripod	Accessory	390251
7	5-metre cable with M8 plug	Accessory	1241724

Tab. 11: Spare parts and accessories

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