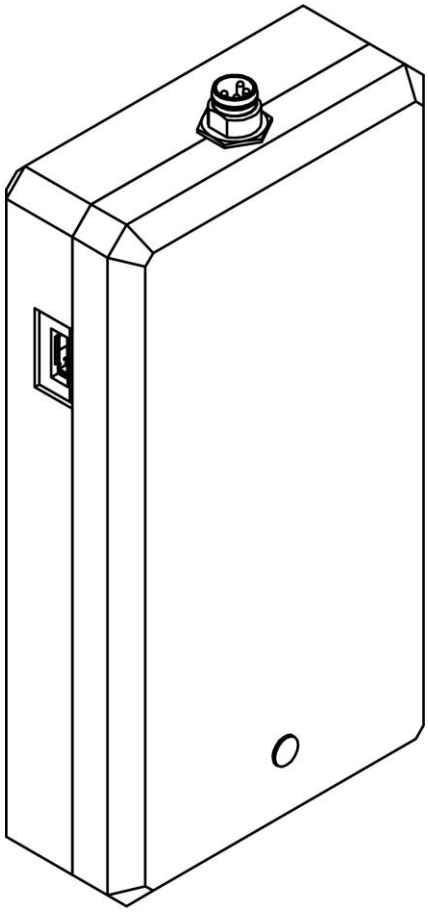
KEMPER



Connect Bridge

EN – Operating instructions (translation from the original)

Rev.00 | 03/2026
Machine ID: 3605615; 3605616
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EN – Operating instructions (translation from the original)

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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

⚠ 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 Function description

The product is designed for the wireless transmission of operating and status data from compatible devices to a cloud platform for analysis and monitoring.

The product is connected to the connected filter unit via a 4-pin M8 communication interface, which is used both to supply power and for data transmission.

An additional micro-USB interface is provided exclusively for service and programming purposes.

Once connected, the product automatically commences operation and independently establishes a connection to the mobile network. Data transmission takes place primarily via the LTE 4G network. If network coverage is insufficient, the system automatically falls back to available 3G or 2G networks. The product connects independently to the best-available mobile network.

As soon as a stable connection is established, the operating data from the connected filter unit is transmitted to a cloud platform at 5-minute intervals. The data is used for remote monitoring, analysis and optimisation of the system’s operation.

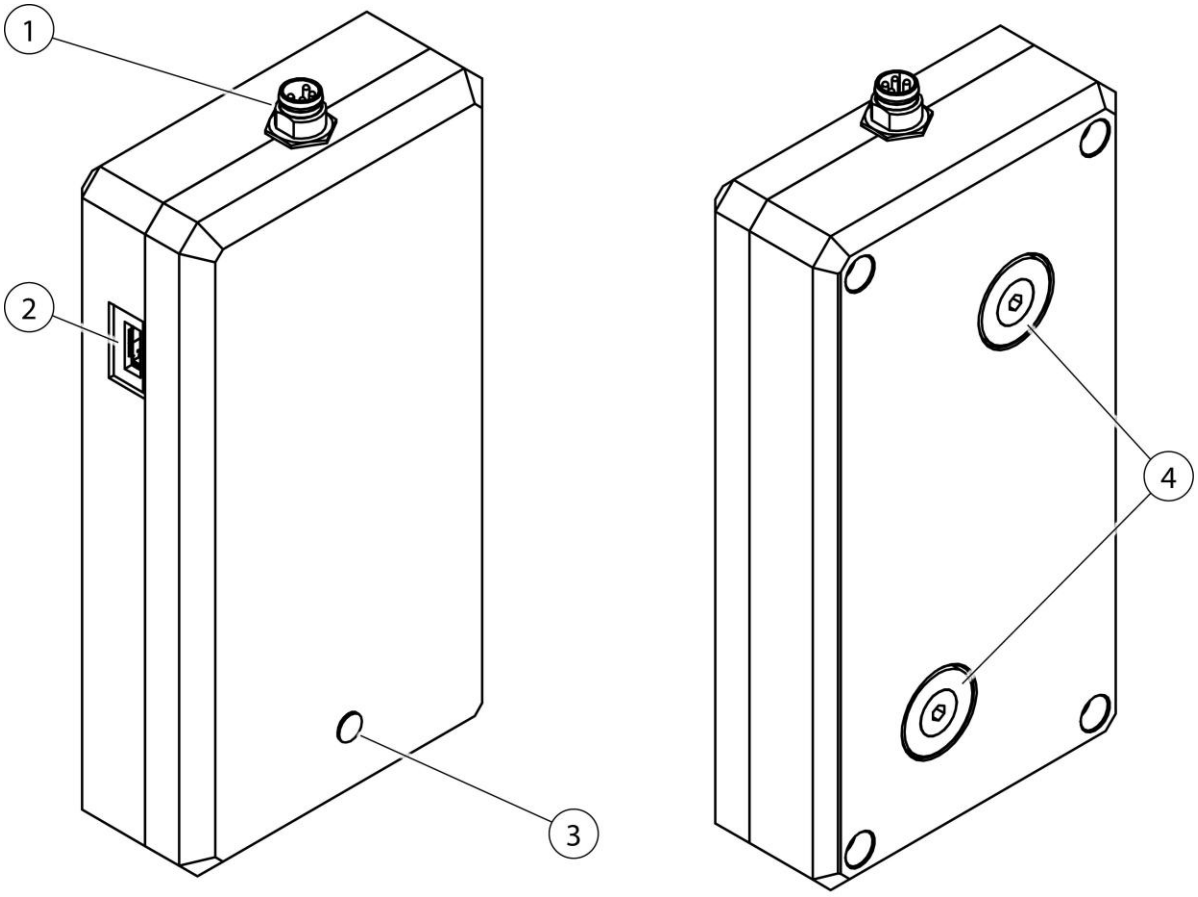


Fig.1 : Product description

Item	Description	Function
1	4-pin M8 connector	Used for power supply and for the transmission of operating and status data between the product and the connected filter unit.
2	Micro-USB socket	Interface for programming and for service purposes (intended for use by the manufacturer only).
3	Status LED	Indicates the product's current operating and connection status.
		Flashing blue: The product is offline and is attempting to connect to the mobile network.
		Flashing rapidly in green: The product is connected to the mobile network and is currently establishing a connection to the cloud.
		Fading green flash: Connection to the mobile network and the cloud has been established.

		Flashing red: Error status, no data transmission.
4	Magnetic mount	Used for easy and secure attachment of the product to metal surfaces on the filter unit or in its vicinity.

Table1 : Product description

NOTE

Settings and queries are carried out via the cloud:

- https://kemperconnect.de

3.2 Intended use

The External Communications Module is used solely for the wireless transmission of operating and status data of a compatible filter unit to the cloud platform.

The data is transmitted via a mobile wireless connection in the LTE 4G network. In the event of insufficient network coverage, the product automatically switches to 3G or 2G networks.

The product is intended solely for use in connection with the filter units approved by the manufacturer and under the technical conditions described in this operating manual.

Use for other purposes or use on unapproved devices is deemed unintended use.

Intended use includes:

- The installation and the electrical connection via the M8 communications socket of the provided units,
- Operation within the specified ambient conditions,
- Use in the mobile wireless network in accordance with applicable national regulations,
- and compliance with all safety and assembly instructions listed in this manual.

Any use beyond this – especially for transmitting other data, manipulating unit settings or connecting to unapproved systems – does not constitute intended use.

Hazards to people, unit or environment may arise from such use, resulting in a loss of warranty and liability claims.

3.3 Connect Cloud – Settings and Queries

The product can be connected to the KEMPER Connect Cloud via the mobile network.

To use the features of the KEMPER Connect Cloud, the product must first be registered in the cloud.

Further information and detailed instructions are available at the following address:

1. https://kemperconnect.de

NOTE

Required mobile network standard

The product can be connected to a mobile network worldwide. This requires a suitable mobile network that supports 2G, 3G or 4G.

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 2: 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.

- Select the installation site so that the product does not obstruct anyone in its working area.
- Observe the performance data of the product. See "Technical data" chapter.

The product is NOT intended for the following uses.

Operation is prohibited in areas:

- outside buildings. The product is not weatherproof.

The product must:

- not be used as a shelf for objects or liquids.
- not be exposed to direct water jets.

3.6 Markings and labels on the product

Various markings and labels are affixed to the product. These serve to identify the product and to provide information on safety-related hazards and connection points.

Damaged, illegible or removed markings and labels must be replaced immediately with equivalent new ones. The replacement labels must be affixed in the same position.

The operator must ensure that any necessary additional markings and labels are affixed to the product and in its immediate vicinity.

Depending on the country of use, the manufacturer may provide additional safety instructions and pictograms in accordance with the applicable legal requirements.

Symbol/Sign	Designation	Location
Type plate	• Name and full address of the manufacturer • Serial number • Year of manufacture • Weight • CE mark	Clearly legible on the product
	Warning of dangerous electrical voltage	On all terminal boxes, switch boxes and low-voltage switchboards
	Protective earth connection	Next to the earthing screws
	Warning: hot surfaces	On all surfaces with temperatures above 60 °C
	Warning: risk of hand injury	At all pinch points
	Warning: pressurised parts	On all pressurised components and assemblies
	Follow the operating instructions	Clearly visible on the product or in the immediate vicinity of the operating area

	Use hand protection and protective clothing when carrying out tasks such as replacing filter cartridges or other cleaning work	On the front cover plate of the filter section
	Wear respiratory protection when carrying out tasks such as replacing filter cartridges or other cleaning tasks	On the front cover plate of the filter section
	DGUV test mark	Clearly visible on the product, preferably on the type plate or in its immediate vicinity

Table3 : Markings and labels on the product

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.

4 Assembly

4.1 Assembly and start-up – Connect Bridge

NOTE

The product (optional) can be connected to the operating control or to the connector panel of the extraction unit.

4.1.1 Assembly – Connection to the operating control

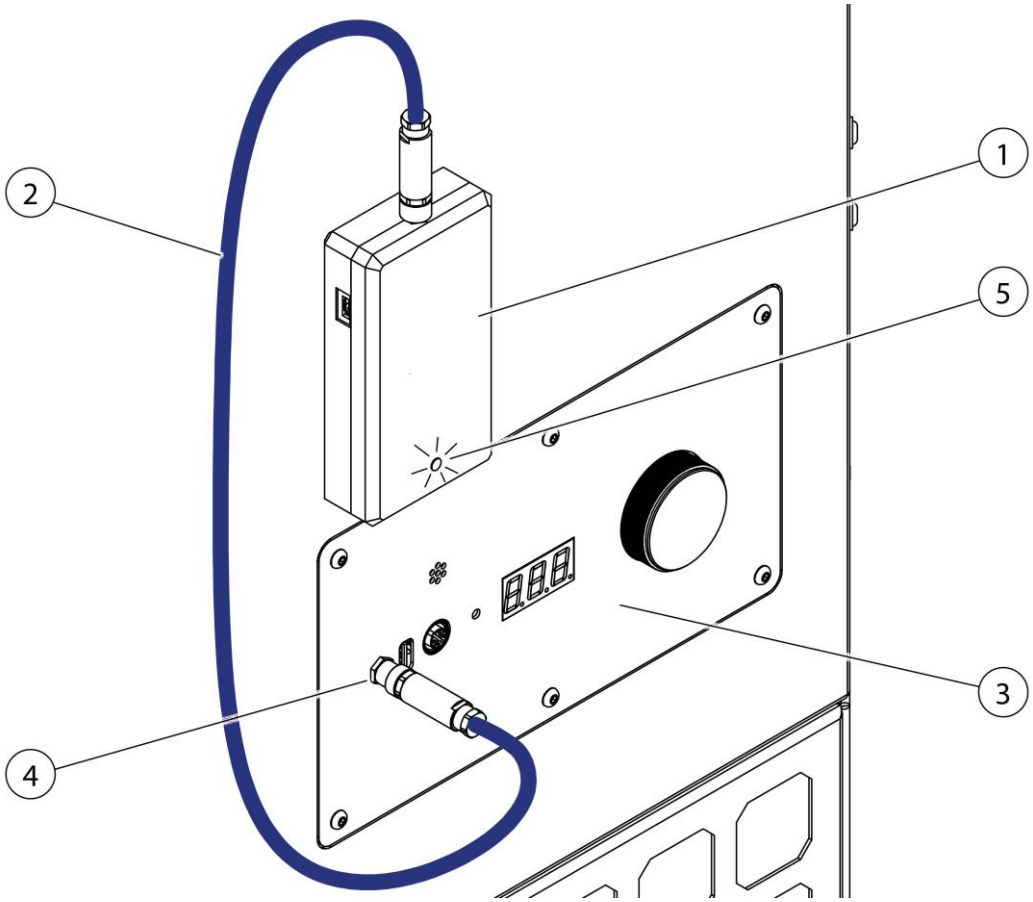


Figure 2: Assembly – example 1

4.1.2 Assembly – Connection to the connector panel (optional)

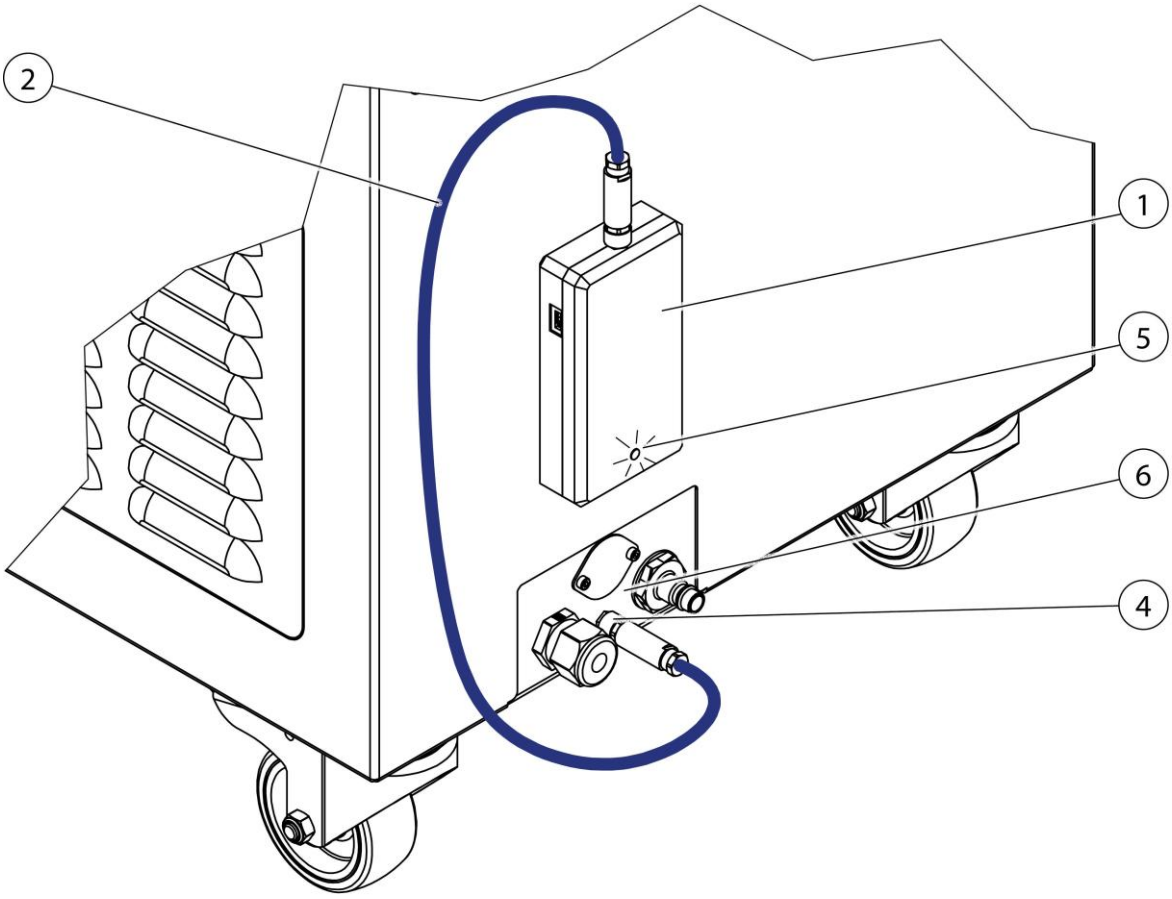


Figure 3: Assembly – example 2

Pos.	Description	Pos.	Description
1	Product (Connect Bridge)	4	Connection socket (M8) operating element
2	Connection cable (data cable)	5	Status LED
3	Operating element of the filter unit	6	Connector panel of the filter unit

Table 4: Assembly example

To assemble the product, proceed as follows:

1. Fasten the product (Pos. 1) using the integrated magnetic holder to a suitable metallic surface of the connected unit.
2. Connect the product (Pos. 1) using the enclosed connection cable (Pos. 2) and connect the cable to the connection socket (Pos. 4) of the

operating element (Pos. 3) or alternatively to the connector panel (Pos. 6).

3. Secure the plug connection of the connection cable (Pos. 2) by tightening the union nut on the connector and socket.

4.1.3 Start-up

NOTE

Once the product is connected to the filter unit being queried, it tries to connect to the mobile wireless network.

Pos.	Description	Function
5	Status LED	Display of the current operating and connection status of the product.
		Flashes blue: Product is offline and trying to establish a connection to the mobile wireless network.
		Flashes green rapidly: Product is connected to the mobile wireless network and is setting up a connection to the cloud.
		Flashes green fading out: Connection to the mobile wireless network and the cloud has been established.
		Flashes red: Error status, no data transmission.

Table 5: Start-up

5 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.

5.1 Maintenance and care

The product is maintenance-free and does not require any regular maintenance work during normal operation.

To ensure reliable and safe operation at all times, the following points must, however, be noted:

Regular checks

- Visual inspection of the module and the connection cables for damage, corrosion or dirt.
- Check of the status LED to ensure the operating status is displayed correctly.

Cleaning

- Where necessary, clean the module with a slightly damp, soft cloth.
- Do not use any solvent-based or abrasive cleaning agents as these can damage the surface or seals.
- The module must not be submerged in water or other liquids.

Software and firmware

- Software or firmware updates must only be carried out by the manufacturer or authorised service partners.
- Unauthorised changes may lead to malfunctions and invalidate the warranty.

5.2 Troubleshooting

Fault	Possible cause	Measure
Product not functioning	No power supply available	Supply power to the filter unit being queried
Status LED does not light up	Connection cable (data cable) not connected correctly or defective	Check plug connections. Replace defective cable.
No data transmission	No mobile wireless connection available	Check the network coverage at the site. Where necessary, use the product in a different location.
		Check plug connections
Erratic data transmission	Weak mobile wireless network, network overload	Check the network coverage at the site.
Status LED flashes red (10 x short)	Software error or system crash	Disconnect the product briefly for 10 seconds from the power supply.
		Disconnect the extraction unit briefly for 10 seconds from the power supply.
		Contact the manufacturer's service department.

Table 6: Troubleshooting

NOTE

If the fault persists after completing the aforementioned measures, contact the manufacturer's service department.

6 Disposal

7 Disposal



Please note that electrical and electronic equipment must not be disposed of with household waste. Old units can be handed in free of charge at designated collection points. There, they are professionally collected, disposed of or prepared for possible reuse. We appeal to you to participate actively so that together we can contribute to the environmentally friendly and sustainable disposal of electrical and electronic equipment.

The return of old units is required by law, as some of these units may contain harmful substances that can damage both the environment and human health. Furthermore, returning the product enables the raw materials it contains to be recycled, which benefits the environment. If the old electrical or electronic device contains personal data, you are responsible for deleting it before returning it.

In accordance with the provisions of Directive 2008/98/EC on waste and its implementation in the legislation of the Member States of the European Union, waste prevention measures take precedence over waste recovery measures. In the field of electrical and electronic units, preference is given to extending the service life of such units by repairing defective units and selling functional used units, rather than disposing of them. Further information can be found at https//www.bundesregierung.de/breg-de/themen/nachhaltigkeitspolitik/elektrogeraete-entsorgen-2155168

8 Annex

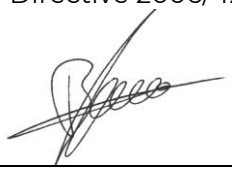
8.1 EC Declaration of Conformity

Designation:	Data transmission system
Series:	Connect Bridge
Type:	3605615; 3605616 (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
	The product continues to comply with the provisions of the 2014/30/EU - Electromagnetic Compatibility (EMC) Directive 2014/35/EU – Low Voltage Directive 2011/65/EU – RoHS Directive
	At the sole responsibility of
Company:	KEMPER GmbH Von-Siemens-Str. 20, D-48691 Vreden

The following harmonised standards are used:
ETSI EN 301 489-1 Electromagnetic Compatibility (EMC)
ETSI EN 301 489-52 Electromagnetic Compatibility (EMC)
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, 24.03.2026		CEO
Place, date	B. KEMPER	Identification of the signatory

8.2 UKCA Declaration of Conformity

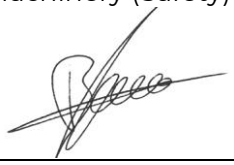
Designation:	Data transmission system
Series:	Connect Bridge
Type:	**3605615; 3605616** (possibly different article numbers for other product variants)
Machine ID:	(Serial number) see type plate on product
	This product is developed, designed and manufactured in accordance with the UKCA directives Radio Equipment Regulations 2017
	The product continues to comply with the provisions of the Radio Equipment Regulations 2017 Electromagnetic Compatibility Regulations 2016 Electrical Equipment (Safety) 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:

ETSI EN 301 489-1 Electromagnetic Compatibility (EMC)
ETSI EN 301 489-52 Electromagnetic Compatibility (EMC)
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, 24.03.2026		CEO
Place, date	B. Kemper	Identification of the signatory

8.3 Technical data

Designation	Type	
Basic data	3605598	3605599
Applicable regions	EMEAA	USA
	Europe	Canada
	Middle East	Mexico
	Africa	
	Asia	
	Australia	
	New Zealand	
Protection type	IP 42	
Supported network providers	Varies by country - LTE, 4G, 2G/ 3G	
Permissible ambient temperature (operation) °C [°F]	+5 to +40 [+40 to +104]	
Dimensions	See dimensions sheet	
Weight kg [lbs]	0.2 [0.44]	
Connection cable, length m [in]	0.6 [23.6]	

Table 7: Technical data

8.4 Dimensions sheet

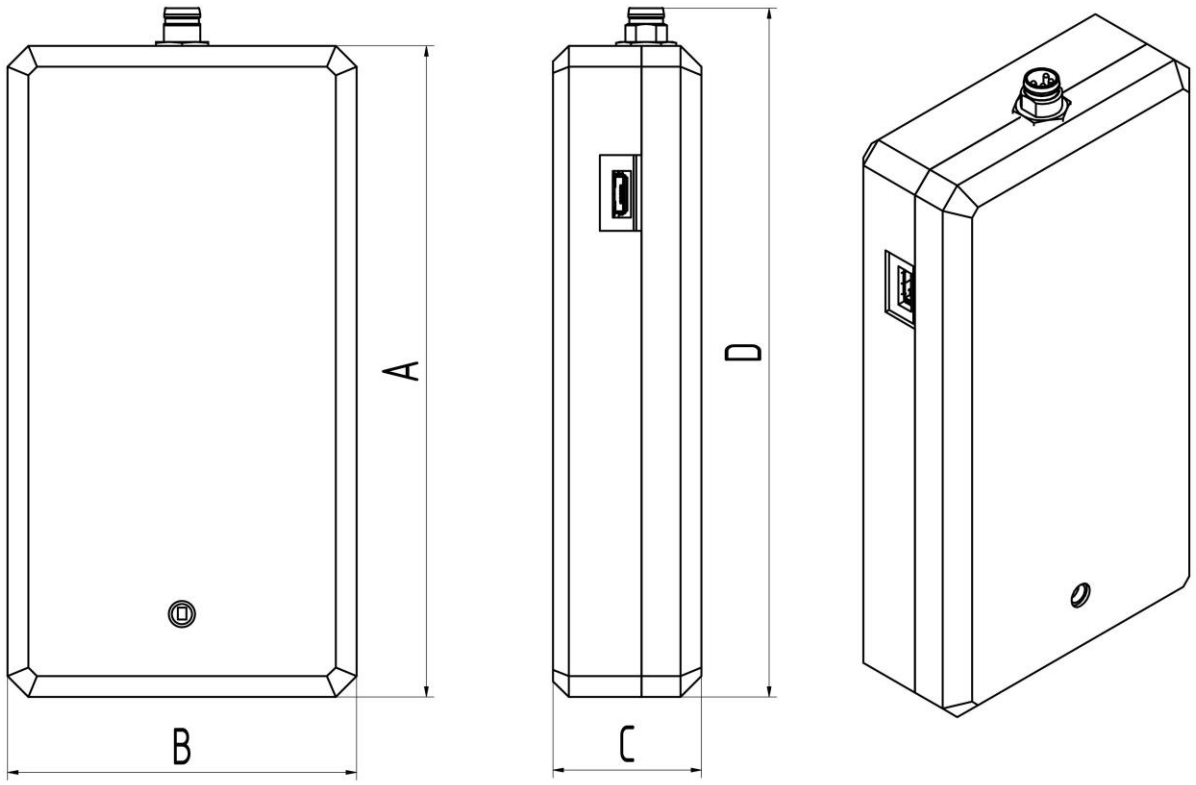


Fig. 4: Dimensions sheet

Symbol	Dimension mm [in]	Symbol	Dimension mm [in]
A	125 [4.9]	C	29 [5.3]
B	67 [2.6]	D	135 [1.6]

Tab. 8: Dimensions table

8.5 Spare parts and accessories

Consec. no.	Description	Part no.
1	Connection cable with right-angle plug, length 0.6 m [2 ft]	1990102
2	Extension cable with right-angle plug, length 5 m [16 ft]	1990103

Table 9: Spare parts and accessories

Deutschland (HQ)
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