



Sample gas probe

ECO

Installation and Operation Instructions

Original instructions





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Read this instruction carefully prior to installation and/or use. Pay attention particularly to all advises and safety instructions to prevent injuries. Bühler Technologies can not be held responsible for misusing the product or unreliable function due to unauthorised modifications.

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Document information

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1 Introduction

1.1 Intended Use

The sample gas probe is intended for installation into gas analysis systems in commercial applications.

Sample gas probes are among the main components in a gas conditioning system.

- Therefore also note the related drawing in the data sheet in the appendix.
- Before installing the device, verify the listed technical data meet the application parameters.
- Further verify all contents are complete.

Please refer to the type plate to identify your model. In addition to the job number/ID number, this also contains the article number and model designation.

Please note the specific values of the device when connecting, and the correct versions when ordering spare parts.

1.2 Scope of Delivery

- 1 x Sample gas probe
- 1 x Flange gasket and screws
- Product documentation
- Connection and mounting accessories (only optional)

1.3 Ordering Instructions

Item no.	Description	Material
46 22 290	Sample Gas Probe ECO	
46 22 2007	Sampling tube 10, max. 135°C	Polyester / 1.4571
46 22 2015	Sampling tube 11, max. 260°C	PTFE / 1.4571
46 22 2303	Sampling tube 03, max. 600°C	1.4571
46 22 20071	Spare filter hose	Polyester
46 22 20072	Spare filter hose	PTFE

2 Safety instructions

2.1 Important advice

Operation of the device is only valid if:

- the product is used under the conditions described in the installation- and operation instruction, the intended application according to the type plate and the intended use. In case of unauthorized modifications done by the user Bühler Technologies GmbH can not be held responsible for any damage,
- when complying with the specifications and markings on the nameplates.
- the performance limits given in the datasheets and in the installation- and operation instruction are obeyed,
- monitoring devices and safety devices are installed properly,
- service and repair is carried out by Bühler Technologies GmbH,
- only original spare parts are used.

This manual is part of the equipment. The manufacturer keeps the right to modify specifications without advanced notice. Keep this manual for later use.

Signal words for warnings

DANGER	Signal word for an imminent danger with high risk, resulting in severe injuries or death if not avoided.
WARNING	Signal word for a hazardous situation with medium risk, possibly resulting in severe injuries or death if not avoided.
CAUTION	Signal word for a hazardous situation with low risk, resulting in damaged to the device or the property or minor or medium injuries if not avoided.
NOTICE	Signal word for important information to the product.

Warning signs

In this manual, the following warning signs are used:

	Warning against hazardous situations		General notice
	Warning against electrical voltage		Disconnect from mains
	Warning against respiration of toxic gases		Wear respirator
	Warning against acid and corrosive substances		Wear eye/face protection
	Warning against potentially explosive atmospheres		Wear protection gloves
	Warning against hot surface		

2.2 General hazard warnings

The equipment must be installed by a professional familiar with the safety requirements and risks.

Be sure to observe the safety regulations and generally applicable rules of technology relevant for the installation site. Prevent malfunctions and avoid personal injuries and property damage.

The operator of the system must ensure:

- Safety notices and operating instructions are available and observed,
- The respective national accident prevention regulations are observed,
- The permissible data and operational conditions are maintained,
- Safety guards are used and mandatory maintenance is performed,
- Legal regulations are observed during disposal,
- compliance with national installation regulations.

Maintenance, Repair

Please note during maintenance and repairs:

- Repairs to the unit must be performed by Bühler authorised personnel.
- Only perform conversion-, maintenance or installation work described in these operating and installation instructions.
- Always use genuine spare parts.
- Do not install damaged or defective spare part. If necessary, visually inspect prior to installation to determine any obvious damage to the spare parts.

Always observe the applicable safety and operating regulations in the respective country of use when performing any type of maintenance.

DANGER	Electrical voltage  Electrocution hazard. a) Disconnect the device from power supply. b) Make sure that the equipment cannot be reconnected to mains unintentionally. c) The device must be opened by trained staff only. d) Regard correct mains voltage. 
DANGER	Toxic, corrosive gases  The measuring gas led through the equipment can be hazardous when breathing or touching it. a) Check tightness of the measuring system before putting it into operation. b) Take care that harmful gases are exhausted to a save place. c) Before maintenance turn off the gas supply and make sure that it cannot be turned on unintentionally. d) Protect yourself during maintenance against toxic / corrosive gases. Use suitable protective equipment. 
DANGER	Potentially explosive atmosphere  Explosion hazard if used in hazardous areas. The device is not suitable for operation in hazardous areas with potentially explosive atmospheres. Do not expose the device to combustible or explosive gas mixtures.

3 Transport and storage

The device should be only transported in the original case or in appropriate packing.

If the device is not used for some time, protect it against heat and humidity. Store the device in a roofed, dry, and dust free room. Temperature should be between -20 °C and 40 °C (-4 °F and 104 °F).

4 Installation and connection

4.1 Installation site requirements

Sample gas probes are intended for flange mounting.

- Installation site and installation position are determined based on requirements specific to the application.
- If necessary, the connection piece should be slightly tilted toward the centre of the channel.
- The installation site should be protected from the weather.
- In addition, adequate and safe access for installation and future maintenance work should be provided. Particularly follow the uninstalled size of the probe tube!

If the probe is transported to the installation site in pieces, it will first need to be assembled.

4.2 Installation

Sampling tube 03 (sintered stainless steel filter) only needs to be screwed on.

Sampling tubes 10 and 11 need to be screwed in, then covered with filter paper and secured on the flange end with the clamp.

The pressure vessel has two fittings with G ¼" internal thread on the outside. One of these fittings is needed to discharge condensate and must point downward. The other can be used to connect a pressure gauge (not included). Unused fittings must be sealed with a plug.

The pressure vessel can be turned to allow any mounting position of the probe. To do so, unscrew the plug for from the air connection at the back (drawing see data sheet). You will now see the hex nut inside the opening. Loosen this, pull the pressure vessel away from the probe and turn it in the desired direction. Ensure one fitting on the outside points downwards to discharge condensate. Now tighten the nut again and screw in the plug until tight.

The probe is then attached to the mating flange using the included seals and screws.

4.3 Insulation

On heated probes completely insulate any exposed flange areas and, if applicable, the connection piece to absolutely prevent thermal bridges. The insulating material must meet the application requirements and be weatherproof.

4.4 Connecting the Gas Line

The sample gas line must be carefully and properly connected using a suitable fitting (NPT ¼"). This also applies to the test gas connection. If the latter is not being used, seal it with a plug.

To avoid condensation in the line in your application, it will need to be heated. The screw-in connection and the probe must then be insulated.

WARNING

Gas emanation



Sample gas can be harmful to the health!

Check the lines for leaks.

4.5 Electrical connections

WARNING

Hazardous electrical voltage

The device must be installed by trained staff only.

CAUTION

Wrong mains voltage

Wrong mains voltage may damage the device.
Regard the correct mains voltage as given on the type plate.

Electric strength test

The necessary tests of all assemblies required to be tested were carried out at the factory (test voltage 1 kV or 1.5 kV depending on component).

To check the electric strength again yourself, only do so on the respective individual components.

- Now perform the electric strength test against earth.

4.5.1 Plug Connection

This device has an EN 175301-803 plug. The following pin assignments and the assignment of solenoid valves to the function are listed below. The numbers specified correspond with those on the plugs.

The power supply is 24 VDC.

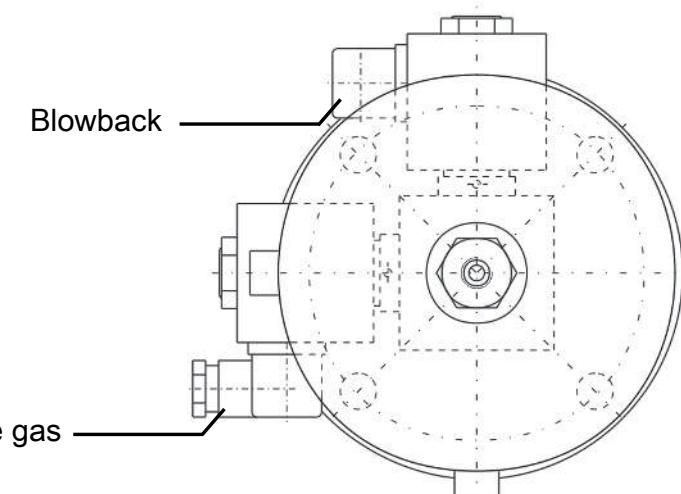
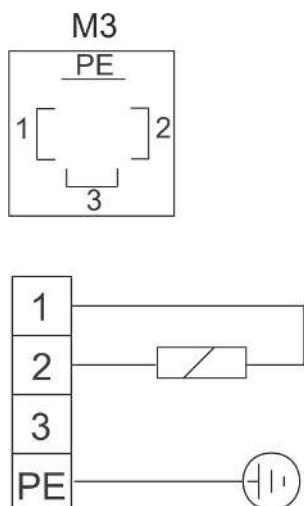


Fig. 1: A02-100034 pin assignment ECO

5 Operation and controls

NOTICE

The device must not be operated beyond its specifications.

5.1 Before Start-Up

Before starting the device, verify

- the hose- and electrical connections are not damaged and correctly installed.
- no parts of the gas probe have been removed.
- the safety and monitoring devices are installed and functional.
- the gas inlet and outlet of the gas probe are open.
- ambient parameters are met.
- the performance specifications in the type plate are met.
- voltage and frequency in the type plate match the mains values.
- all connection cables are installed without strain.
- precautions have been taken.
- cable glands are sealed properly.
- the earth is proper and functional.

6 Maintenance

During maintenance, remember:

- The equipment must be maintained by a professional familiar with the safety requirements and risks.
- Only perform maintenance work described in these operating and installation instructions.
- When performing maintenance of any type, observe the respective safety and operation regulations.

DANGER	Electrical voltage  Electrocution hazard. a) Disconnect the device from power supply. b) Make sure that the equipment cannot be reconnected to mains unintentionally. c) The device must be opened by trained staff only. d) Regard correct mains voltage.	
DANGER	The gas inside the filter, condensate and used filter elements may be caustic or corrosive.  Sample gas can be harmful. a) Before maintenance turn off the gas supply and surge with air if necessary. b) Exhaust sample gas to a safe place. c) Protect yourself against toxic / corrosive gas during maintenance. Wear appropriate personal protection equipment.	  
CAUTION	Hot surface  Risk of burns Housing temperatures may be high during operation. Allow the unit to cool down before performing maintenance.	

6.1 Backwashing the Inlet Filter

Be sure to use filtered air with a minimum rating of PNEUROP / ISO Class 4 for blowback:

Class	Particles / m ³ Particle size: (1 to 5) µm	Pressure dew point [°C]	Residual oil content [mg / m ³]
4	to 1000 (no particles ≥ 15 µm)	≤ 3	≤ 5

The control unit of the system requires sequential valve control, i.e.:

1. closing the solenoid valve for the sample gas outlet.
2. Open the solenoid valve between the pressure vessel and probe for approx. 10 seconds.
3. Open the solenoid valve for the sample gas outlet again.

A delay is required between one solenoid valve closing and the other solenoid valve opening to prevent pressure surges in the sample gas line.

Blowback can also be set as a closed process at intervals ranging from several minutes to hours or even days based on requirements. We offer a type RSS 24 blowback control.

7 Service and repair

This chapter contains information on troubleshooting and correction should an error occur during operation.

Repairs to the unit must be performed by Bühler authorised personnel.

Please contact our Service Department with any questions:

Tel.: +49-(0)2102-498955 or your agent

If the equipment is not functioning properly after correcting any malfunctions and switching on the power, it must be inspected by the manufacturer. Please send the equipment inside suitable packaging to:

Bühler Technologies GmbH

- Reparatur/Service -

Harkortstraße 29

40880 Ratingen

Germany

Please also attach the completed and signed RMA decontamination statement to the packaging. We will otherwise be unable to process your repair order.

You will find the form in the appendix of these instructions, or simply request it by e-mail:

service@buehler-technologies.com.

7.1 Troubleshooting

CAUTION	Risk due to defective device	
	<p>Personal injury or damage to property</p> <p>a) Switch off the device and disconnect it from the mains.</p> <p>b) Repair the fault immediately. The device should not be turned on again before elimination of the failure.</p>	
Problem / Malfunction	Possible cause	Action
No or reduced gas flow	<ul style="list-style-type: none"> – Filter element clogged – Solenoid valve closed – Blowback not responding 	<ul style="list-style-type: none"> – Clean or replace filter element – Open solenoid valve – Check compressed air supply
<i>Tab. 1: Troubleshooting</i>		

7.2 Spare Parts and Accessories

Please also specify the model and serial number when ordering parts.

Upgrade and expansion parts can be found in our catalog.

Available spare parts:

Item no.	Description
90 090 79	Flange seal type 222.
90 090 68	Probe tube seal type 222.
46 222 007 1	Replacement filter up to 135 °C, polyester
46 222 007 2	Replacement filter up to 260 °C, PTFE
90 09 081	O-ring for pressure vessel
90 09 053	Cu sealing ring for pressure vessel

8 Disposal

The applicable national laws must be observed when disposing of the products. Disposal must not result in a danger to health and environment.

The crossed out wheelie bin symbol on Bühler Technologies GmbH electrical and electronic products indicates special disposal notices within the European Union (EU).



The crossed out wheelie bin symbol indicates the electric and electronic products bearing the symbol must be disposed of separate from household waste. They must be properly disposed of as waste electrical and electronic equipment.

Bühler Technologies GmbH will gladly dispose of your device bearing this mark. Please send your device to the address below for this purpose.

We are obligated by law to protect our employees from hazards posed by contaminated devices. Therefore please understand that we can only dispose of your waste equipment if the device is free from any aggressive, corrosive or other operating fluids dangerous to health or environment. **Please complete the "RMA Form and Decontamination Statement", available on our website, for every waste electrical and electronic equipment. The form must be applied to the packaging so it is visible from the outside.**

Please return waste electrical and electronic equipment to the following address:

Bühler Technologies GmbH
WEEE
Harkortstr. 29
40880 Ratingen
Germany

Please also observe data protection regulations and remember you are personally responsible for the returned waste equipment not bearing any personal data. Therefore please be sure to delete your personal data before returning your waste equipment.

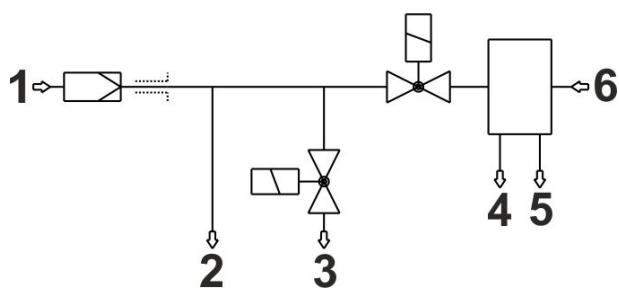
9 Appendices

9.1 Technical Data

Gas Probe Technical Data

Flange:	1.4571
Head:	1.4571
Gas inlet temperature:	max. 120 °C
Ambient temperature:	-20 to +60 °C
Solenoid valve:	VA/ Viton/ EPDM 24 VDC
Weight without filter element:	approx. 9.3 kg
Reservoir:	1.4571
Reservoir volume:	2 L
Reservoir max. operating pressure:	5 bar

9.2 Functional diagram



1= sampling tube (accessory)

2= NPT 1/4" connection (e.g. calibrating gas)

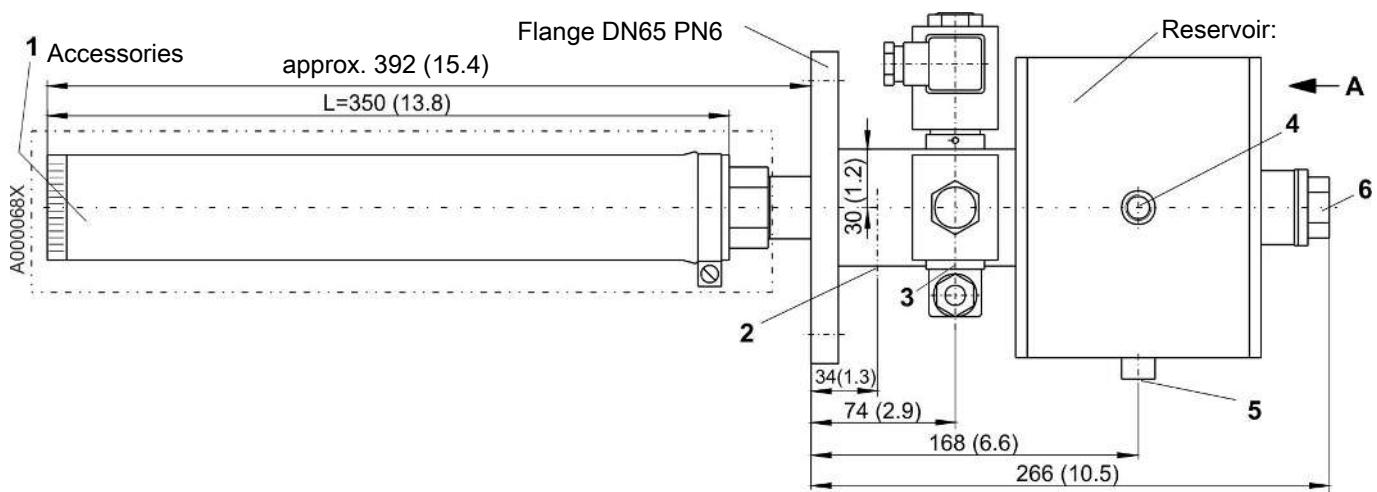
3= sample gas Off NPT 1/4"

4= G1/4 connector (e.g. pressure gauge)

5= condensate Off G1/4

6= air connection G1/4

9.3 Dimensions



1= sampling tube (accessory)

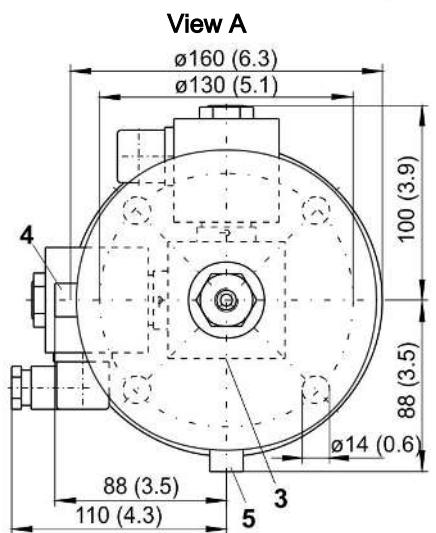
2= NPT 1/4" connection (e.g. calibrating gas)

3= sample gas Off NPT 1/4"

4= G1/4 connector (e.g. pressure gauge)

5= condensate Off G1/4

6= air connection G1/4



10 Attached Documents

- Declaration of Conformity KX460003
- RMA - Decontamination Statement

EU-Konformitätserklärung
EU-declaration of conformity



Hiermit erklärt Bühler Technologies GmbH,
dass die nachfolgenden Produkte den
wesentlichen Anforderungen der Richtlinie

*Herewith declares Bühler Technologies GmbH
that the following products correspond to the
essential requirements of Directive*

2014/30/EU
(Elektromagnetische Verträglichkeit / electromagnetic compatibility)

in ihrer aktuellen Fassung entsprechen.

in its actual version.

Folgende Richtlinien wurden berücksichtigt:

The following directives were regarded:

2014/35/EU (NSR/LVD)

2014/68/EU (DGRL/PED)

Produkt / products: Gasentnahmesonden / Sample gas probes

Typ / type: ECO

Das Betriebsmittel ist zum Einbau in Gasanalysesystemen bestimmt.
The equipment is designed for installation in gas analysing systems.

Das oben beschriebene Produkt der Erklärung erfüllt die einschlägigen
Harmonisierungsrechtsvorschriften der Union:

*The object of the declaration described above is in conformity with the relevant Union harmonisation
legislation:*

EN 61000-6-3:2007/A1:2011

EN 61000-6-2:2005/AC:2005

EN 60204-1:2018

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Dokumentationsverantwortlicher für diese Konformitätserklärung ist Herr Stefan Eschweiler mit
Anschrift am Firmensitz.

*The person authorised to compile the technical file is Mr. Stefan Eschweiler located at the company's
address.*

Ratingen, den 01.11.2022

A handwritten signature in black ink, appearing to read "Stefan Eschweiler".

Stefan Eschweiler
Geschäftsführer – Managing Director

A handwritten signature in blue ink, appearing to read "Frank Pospiech".

Frank Pospiech
Geschäftsführer – Managing Director

UK Declaration of Conformity



The manufacturer Bühler Technologies GmbH declares, under the sole responsibility, that the product complies with the requirements of the following UK legislation:

Electromagnetic Compatibility Regulations 2016

The following legislation were regarded:

Electrical Equipment Safety Regulations 2016 Pressure Equipment (Safety) Regulations 2016

Product: Sample gas probes
Type: ECO

The equipment is designed for installation in gas analysing systems.

The object of the declaration described above is in conformity with the relevant designated standards:

EN 61000-6-3:2007/A1:2011
EN 60204-1:2018

EN 61000-6-2:2005/AC:2005

Ratingen in Germany, 01.11.2022

A handwritten signature in black ink, appearing to read 'Stefan Eschweiler'.

Stefan Eschweiler
Managing Director

A handwritten signature in blue ink, appearing to read 'Frank Pospiech'.

Frank Pospiech
Managing Director

RMA-Formular und Erklärung über Dekontaminierung

RMA-Form and explanation for decontamination

RMA-Nr./ RMA-No.



Die RMA-Nr. bekommen Sie von Ihrem Ansprechpartner im Vertrieb oder Service. Bei Rücksendung eines Altgeräts zur Entsorgung tragen Sie bitte in das Feld der RMA-Nr. "WEEE" ein./ You may obtain the RMA number from your sales or service representative. When returning an old appliance for disposal, please enter "WEEE" in the RMA number box.

Zu diesem Rücksendeschein gehört eine Dekontaminierungserklärung. Die gesetzlichen Vorschriften schreiben vor, dass Sie uns diese Dekontaminierungserklärung ausgefüllt und unterschrieben zurücksenden müssen. Bitte füllen Sie auch diese im Sinne der Gesundheit unserer Mitarbeiter vollständig aus./ This return form includes a decontamination statement. The law requires you to submit this completed and signed decontamination statement to us. Please complete the entire form, also in the interest of our employee health.

Firma/ Company

Firma/ Company

Straße/ Street

PLZ, Ort/ Zip, City

Land/ Country

Gerät/ Device

Anzahl/ Quantity

Auftragsnr./ Order No.

Ansprechpartner/ Person in charge

Name/ Name

Abt./ Dept.

Tel./ Phone

E-Mail

Serien-Nr./ Serial No.

Artikel-Nr./ Item No.

Grund der Rücksendung/ Reason for return

- Kalibrierung/ Calibration Modifikation/ Modification
 Reklamation/ Claim Reparatur/ Repair
 Elektroaltgerät/ Waste Electrical & Electronic Equipment (WEEE)
 andere/ other

bitte spezifizieren/ please specify

Ist das Gerät möglicherweise kontaminiert?/ Could the equipment be contaminated?

- Nein, da das Gerät nicht mit gesundheitsgefährdenden Stoffen betrieben wurde./ No, because the device was not operated with hazardous substances.
 Nein, da das Gerät ordnungsgemäß gereinigt und dekontaminiert wurde./ No, because the device has been properly cleaned and decontaminated.
 Ja, kontaminiert mit:/ Yes, contaminated with:



explosiv/
explosive



entzündlich/
flammable



brandfördernd/
oxidizing



komprimierte
Gase/
compressed
gases



ätzend/
caustic



giftig,
Lebensgefahr/
poisonous, risk
of death



gesundheitsge-
fährdend/
harmful to
health



gesund-
heitsschädlich/
health hazard



umweltge-
fährdend/
environmental
hazard

Bitte Sicherheitsdatenblatt beilegen!/ Please enclose safety data sheet!

Das Gerät wurde gespült mit:/ The equipment was purged with:

Diese Erklärung wurde korrekt und vollständig ausgefüllt und von einer dazu befugten Person unterschrieben. Der Versand der (dekontaminierten) Geräte und Komponenten erfolgt gemäß den gesetzlichen Bestimmungen.

Falls die Ware nicht gereinigt, also kontaminiert bei uns eintrifft, muss die Firma Bühler sich vorbehalten, diese durch einen externen Dienstleister reinigen zu lassen und Ihnen dies in Rechnung zu stellen.

Firmenstempel/ Company Sign

This declaration has been filled out correctly and completely, and signed by an authorized person. The dispatch of the (decontaminated) devices and components takes place according to the legal regulations.

Should the goods not arrive clean, but contaminated, Bühler reserves the right, to commission an external service provider to clean the goods and invoice it to your account.

Datum/ Date

rechtsverbindliche Unterschrift/ Legally binding signature

DE000011
12/2022

Bühler Technologies GmbH, Harkortstr. 29, D-40880 Ratingen
Tel. +49 (0) 21 02 / 49 89-0, Fax: +49 (0) 21 02 / 49 89-20
E-Mail: service@buehler-technologies.com
Internet: www.buehler-technologies.com



Dekontaminierungserklärung

Vermeiden von Veränderung und Beschädigung der einzusendenden Baugruppe

Die Analyse defekter Baugruppen ist ein wesentlicher Bestandteil der Qualitätssicherung der Firma Bühler Technologies GmbH. Um eine aussagekräftige Analyse zu gewährleisten muss die Ware möglichst unverändert untersucht werden. Es dürfen keine Veränderungen oder weitere Beschädigungen auftreten, die Ursachen verdecken oder eine Analyse unmöglich machen.

Umgang mit elektrostatisch sensiblen Baugruppen

Bei elektronischen Baugruppen kann es sich um elektrostatisch sensible Baugruppen handeln. Es ist darauf zu achten, diese Baugruppen ESD-gerecht zu behandeln. Nach Möglichkeit sollten die Baugruppen an einem ESD-gerechten Arbeitsplatz getauscht werden. Ist dies nicht möglich sollten ESD-gerechte Maßnahmen beim Austausch getroffen werden. Der Transport darf nur in ESD-gerechten Behältnissen durchgeführt werden. Die Verpackung der Baugruppen muss ESD-konform sein. Verwenden Sie nach Möglichkeit die Verpackung des Ersatzteils oder wählen Sie selber eine ESD-gerechte Verpackung.

Einbau von Ersatzteilen

Beachten Sie beim Einbau des Ersatzteils die gleichen Vorgaben wie oben beschrieben. Achten Sie auf die ordnungsgemäße Montage des Bauteils und aller Komponenten. Versetzen Sie vor der Inbetriebnahme die Verkabelung wieder in den ursprünglichen Zustand. Fragen Sie im Zweifel beim Hersteller nach weiteren Informationen.

Einsenden von Elektroaltgeräten zur Entsorgung

Wollen Sie ein von Bühler Technologies GmbH stammendes Elektroprodukt zur fachgerechten Entsorgung einsenden, dann tragen Sie bitte in das Feld der RMA-Nr. „WEEE“ ein. Legen Sie dem Altgerät die vollständig ausgefüllte Dekontaminierungserklärung für den Transport von außen sichtbar bei. Weitere Informationen zur Entsorgung von Elektroaltgeräten finden Sie auf der Webseite unseres Unternehmens.

Avoiding alterations and damage to the components to be returned

Analysing defective assemblies is an essential part of quality assurance at Bühler Technologies GmbH. To ensure conclusive analysis the goods must be inspected unaltered, if possible. Modifications or other damages which may hide the cause or render it impossible to analyse are prohibited.

Handling electrostatically conductive components

Electronic assemblies may be sensitive to static electricity. Be sure to handle these assemblies in an ESD-safe manner. Where possible, the assemblies should be replaced in an ESD-safe location. If unable to do so, take ESD-safe precautions when replacing these. Must be transported in ESD-safe containers. The packaging of the assemblies must be ESD-safe. If possible, use the packaging of the spare part or use ESD-safe packaging.

Fitting of spare parts

Observe the above specifications when installing the spare part. Ensure the part and all components are properly installed. Return the cables to the original state before putting into service. When in doubt, contact the manufacturer for additional information.

Returning old electrical appliances for disposal

If you wish to return an electrical product from Bühler Technologies GmbH for proper disposal, please enter "WEEE" in the RMA number box. Please attach the fully completed decontamination declaration form for transport to the old appliance so that it is visible from the outside. You can find more information on the disposal of old electrical appliances on our company's website.

