



Level switch NS 1/GFK-xx

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

Level switches are used to monitor the fill level in fluid systems.
Level switches must not be used in highly flammable or corrosive liquids.

The medium must not contain particles, particularly metallic particles, to prevent deposits on the float or between the float and switching tube. If necessary, filter the medium.

Please note the technical data in the appendix for the specific intended use, existing material combinations, as well as temperature limits.

WARNING



All device models are solely intended for industrial applications. They are **not safety components**. The devices must not be used if failure or malfunction thereof jeopardises the safety and health of persons.
Use in explosive areas is **prohibited**.

1.2 Functionality

1.2.1 Liquid level monitoring

The measuring tube is located inside the tank. The level switches are located inside the measuring tube. These are activated by a magnet inside the level switch float.

The contacts are mounted to a perforated rail spaced as specified in the purchase order, but can be moved if necessary.

1.3 Ordering instructions

NS 1/GFK-□□-□□-nn-nn-□□-□□	
Type designation	
Version	
MS Brass	
VA float and immersion tube	
Plug connector	
M3	
S6	
C7	
C6F	
Length in mm (max. 1500)	
280 Standard lengths	
370	
500	
nn variable, please specify value	
Level measurement	
1-4 Number of contacts	
	1. Temperature signal
	<i>NC contact NO contact</i>
	TK... TK50NC TK50NO = 50 °C
	TK60NC TK60NO = 60 °C
	TK70NC TK70NO = 70 °C
	TK80NC TK80NO = 80 °C
	Pt100 Temperature sensor ¹⁾
	KT Temperature transmitter ^{1) 2)}
	BTS Resistance thermometer ¹⁾
	Level contact
	K Model K6/K10 (NC/NO)
	W Model W7/W11 (change-over contact)

¹⁾ cannot be combined with temperature contact.

²⁾ with KT only 10 - 30 V DC

³⁾ for version with 2 temperature contacts.

1.4 Scope of Delivery

- Level switch
- Product documentation
- Connection/mounting accessories (optional)

2 Safety instructions

2.1 Important advice

The device may only be operated if:

- the product is used under the conditions described in the operating and installation manual, in accordance with the type label, and for the intended applications; Any unauthorised modifications to the device will void the warranty provided by Bühler Technologies GmbH,
- the information and markings on the type plates are observed,
- the limit values specified in the data sheet and in this operating and installation manual are observed,
- the device is not operated outside its specification,
- monitoring/protective devices are correctly connected,
- Service and repairs not described in these instructions is performed by Bühler Technologies GmbH,
- Using genuine replacement parts.

These operation instructions are a part of the equipment. The manufacturer reserves the right to change performance, specification or design data without prior notice. Keep this manual for future reference.

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

These instructions include the following warnings:

	General warning sign		Unplug from mains
	Voltage warning		Wear respiratory equipment
	Warning not to inhale toxic gases		Wear a safety mask
	Warning of corrosive substances		Wear gloves
	General mandatory sign		

2.2 General hazard warnings

The device may only be installed by qualified specialist personnel who are familiar with the safety requirements and associated risks. In addition, through their professional training, they possess knowledge of the relevant standards and regulations.

Be sure to observe the safety regulations relevant to the installation location and the generally accepted rules of technology. Prevent malfunctions and thereby avoid personal injury and damage to property.

The operator of the system must ensure that:

- Safety instructions and operating manuals are available and observed,
- the respective national accident prevention regulations are observed,
- the permissible data and operational conditions are maintained,
- protective devices are used and the required maintenance is performed,
- the device is disposed of according to the law,
- valid national installation regulations are observed,

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.

The method for cleaning the devices must be adapted to the IP protection class of the devices. Do not use cleaners which could damage the device materials.

DANGER

Toxic Liquids

Liquids can be hazardous to health.

- a) Protect yourself from toxic liquids when performing any type of work.
- b) If necessary, ensure safe discharging.
- c) Wear suitable protective equipment.



DANGER

Electric voltage

Risk of electric shock

- a) De-energise the system.
- b) The equipment may only be installed, maintained and put into operation by instructed, competent personnel.
- c) Always observe the applicable safety regulations for the operating site.



3 Transport and storage

Only transport the product inside the original packaging or a suitable alternative.

The equipment must be protected from moisture and heat when not in use. It must be stored in a covered, dry, dust-free room at room temperature.

4 Setup and connection

DANGER

Toxic Liquids



Liquids can be hazardous to health.

- a) Protect yourself from toxic liquids when performing any type of work.
- b) If necessary, ensure safe discharging.
- c) Wear suitable protective equipment.



4.1 Assembly

Please note before installing the level switch!

After transport and delivery of the level switch, the switching status of the bistable contacts may be different than required for proper operation.

Therefore slide the float for the level switch along the level switch tube from below immediately before installation.

This ensures all built-in bistable contacts have a clearly defined switching status (NC or NO).

The level switch (transducer) comes fully assembled and can be mounted in the tank using the required screws and seals. Please be sure the float can move freely and to leave enough space between the tank wall and add-ons.

After removing the float, where applicable, be sure the magnet inside the float is above the fluid level. This can easily be verified with a piece of iron to determine the magnet position inside the float.

The level contacts are mounted (with the tank empty) as NO contact (NO) or NC contact (NC).

The contact logic assumes the level switch is installed in an empty tank, i.e. it is only in the operating position once filled.

4.2 Electrical connections

DANGER

Electric voltage



Risk of electric shock

When connecting devices, please note the maximum voltages and currents and use the correct wire cross-sections and circuit breakers.

When selecting the connection lines, also note the maximum operating temperatures of the devices.



Please refer to the [Appendices](#) [> page 12] for the pin assignment.

4.3 Adjusting the level contacts

The level measurement contacts are mounted on a perforated rail inside the protective tube. These are arranged per order specifications but can be moved if necessary.

Depending on the model, the perforated rail will also have electronic assemblies. These are positioned so they do not limit the setting range of the level contacts. Please be sure not to damage the assemblies during installation or removal. Models in the K series supply continuous 4-20 mA analogue signals (normally: 4 mA lowest point, 20 mA highest point). These devices require no configuration.

Proceed as follows:

- Disconnect the voltage supply.
- Unscrew plug base / protection rail
- For plug-in connectors compliant with DIN EN 175301-803, a screw-in plug base is sometimes used. For these, unscrew the top hexagon ring and pull the complete pin insert up until the bottom of the base can be unscrewed freely.
- Carefully pull the perforated rail with contacts out the top.

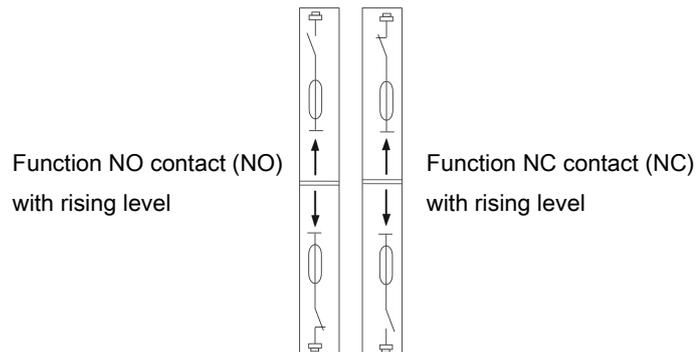
NOTICE

On versions with earth wire, this is run as a loop and soldered to the protective tube from the inside in the insertion direction. To prevent breaking off the earth wire it should not be pulled all the way out.

- Mark the original contact position.
- Lock the contacts in place in the desired positions. Please note the minimum spacing!

If the contacts are configured as NO contact (NO) or NC contact (NC), the contact function can be reversed by turning the contacts 180°. The housing has symbols for NC contact and NO contact as well as an arrow. The arrow, which points up when installed, indicates the current contact function. The contact logic assumes the level switch is installed in an empty tank, i.e. it is only in the operating position once filled.

The thermal switch or sensor is at the bottom end of the perforated rail. They are shrunk onto a mounting tab and secured with a plastic pin.



- If the earth wire was pulled out of the protective tube, first insert this wire into the protective tube.
- Make a loop of the additional cable length and carefully slide the perforated rail in again.
- Screw on the plug base.
For plug connectors compliant with DIN EN 175301-803 with screw-in thread, the perforated rail and the cable bundle are inserted into the protective tube. Next, attach the plug base clean and screw in hand-tight. Leave the pin insert free so the base can turn around the cables without drilling them. Now slide the cables all the way in, lock the pin insert into the guide and slide all the way in. Tighten the top hexagon ring hand tight. Reattach the upper part of the plug and tighten the knurled screw.

NOTICE

Ensure the seals are positioned correctly. Replace defective seals immediately!

5 Operation and control

NOTICE



The device must not be started or operated outside the specifications!

6 Cleaning and Maintenance

This device is maintenance-free.

The method for cleaning the devices must be adapted to the IP protection class of the devices. Do not use cleaners which could damage the device materials.

7 Service and repair

If an error occurs during operation, you will find troubleshooting and corrective information in this chapter.

Repairs to the equipment may only be performed by Bühler authorised personnel.

If you have any questions, please contact our service department:

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

Further information about our individual service solutions for repair, modification and commissioning can be found at <https://www.buehler-technologies.com/service>.

If, after rectifying any faults and switching on the mains voltage, the device does not function correctly, it must be checked by the manufacturer. Please send the equipment inside suitable packaging to:

Bühler Technologies GmbH – BZL

Halle A1 – Aircompark

Halskestr. 24

40880 Ratingen

Germany

In addition, please attach the completed and signed RMA decontamination declaration to the packaging. Otherwise, your repair order cannot be processed. You can find the form in the appendix of these instructions, or simply request it by e-mailing:

service@buehler-technologies.com

7.1 Consumables and accessories

Item no.	Description
1251000	O-ring ø60x2.5

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 – BZL
WEEE
Halle A1 – Aircompark
Halskestr. 24
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

Basic Unit

Version	NS 1/GFK-MS	NS 1/GFK-MS-VA
Max. operating pressure:	1 bar	1 bar
Max. operating temperature:	80 °C	120 °C
Min. fluid density:	0.8 kg/dm ³	0.8 kg/dm ³
Lengths:	350, 500 mm (standard), variable to max. 1000 mm	

Material

Switching tube:	MS	MS
Flange:	GFK	GFK
Float:	Rigid PU (SK 601)	1.4571 (SK 221)

Level contacts

	K6	W7
Function:	NC/NO*	Changeover contact
min. contact spacing:	80 mm	80 mm
Max. operating voltage:	230 V AC/DC**	230 V AC/DC**
Max. switching current:	1 A	1 A
Contact load:	50 VA	40 VA

Level contacts

	K10	W11
Function:	NC/NO*	Changeover contact
min. contact spacing:	40 mm	40 mm
Max. operating voltage:	230 V AC/DC**	48 V AC/DC**
Max. switching current:	0.5 A	0.5 A
Contact load:	10 VA	20 VA

*NC = NC contact/NO = NO contact

**when configured with temperature transmitter KT max. 30 V DC

All data with **empty tank**.

Temperature contacts	TKÖ	TKS
Max. operating voltage:	230 V AC	230 V AC
Max. switching current:	2 A	2 A
Max. contact load:	100 VA	100 VA
Function	NC*	NO*
Switching point °C:	50/60/70	50/60/70
Max. hysteresis:	15 K ± 5 K	15 K ± 5 K

*NO = NO contact / NC = NC contact

Data for **rising temperature**.

Other temperatures and versions available upon request.

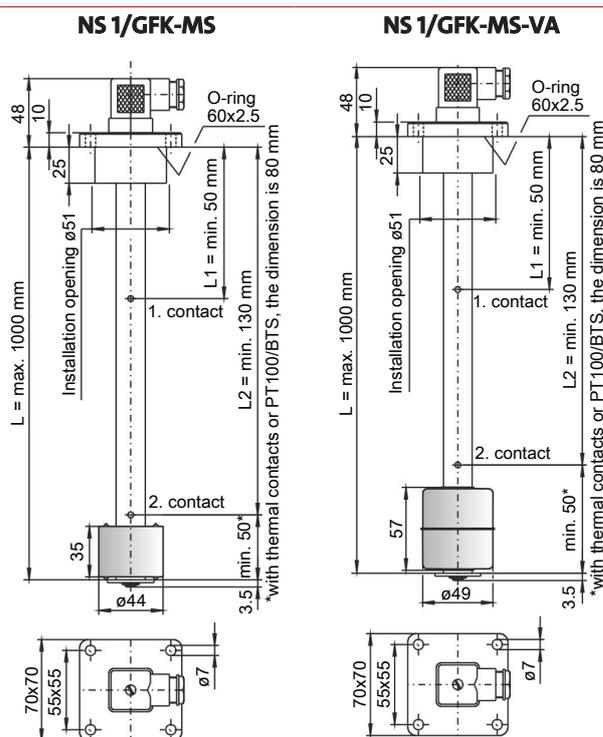
Temperature signal

Temperature sensor:	Pt100 tolerance ± 0,8 °C
Resistance thermometer	BTS tolerance ± 1.4 °C

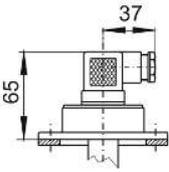
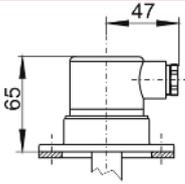
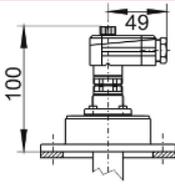
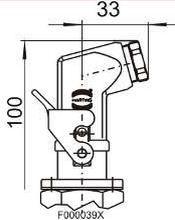
Temperature transmitter

KT	
Sensor element:	Pt100 Class B, DIN EN 60751
Measuring range:	0 °C to +100 °C
Operating voltage (U _B):	10–30 V DC
Output:	4–20 mA
Max. burden Ω:	= (U _B - 7.5 V) / 0.02 A
Accuracy:	± 1 % from end value
Other measuring ranges available upon request	

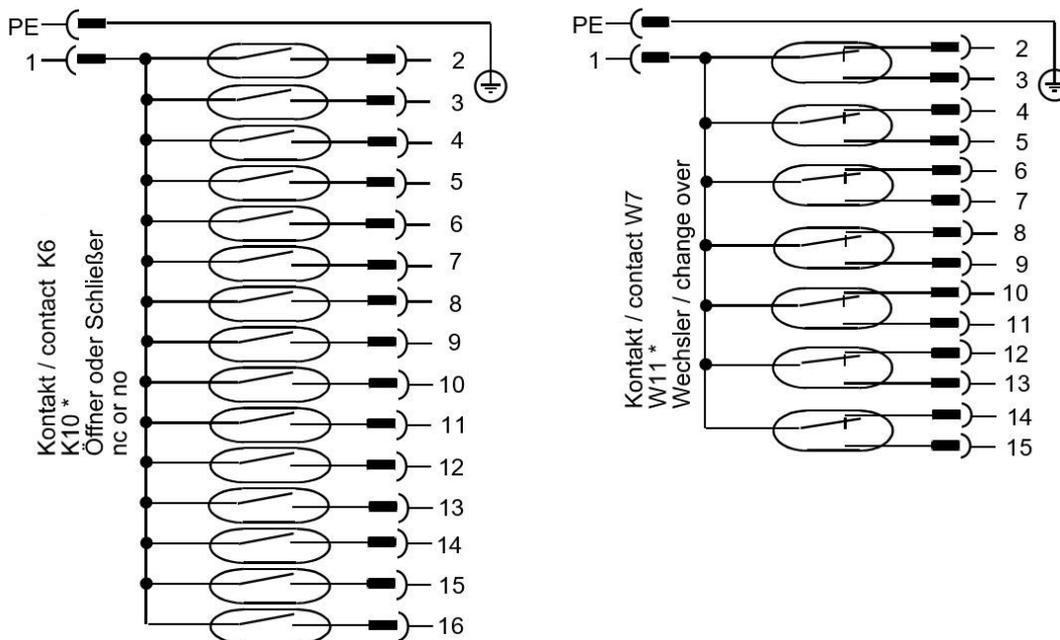
Dimensions



9.2 Plug connections

Connector	M3	S6	C6F	C7
Dimensions				
Number of pins	3-pin + PE	6-pin + PE	6-pin + PE	7-pin + PE
DIN EN	175301-803		175301-804	175301-801
Voltage max.	230 V AC/DC	230 V A/DC	230 V A/DC	230 V AC/DC
IP rating	IP65	IP65	IP65	IP65
Cable fitting	PG 11	M20 x 1.5	PG 11	PG 11
Level/temperature contacts	- / - - / -	3 x K6 (K10) 1 x W7 (W11)	3 x K6 (K10) 1 x W7 (W11)	4 x K6 (K10) 2 x W7 (W11)
Level contacts only	2 x K6 (K10) 1 x W7 (W11)	5 x K6 (K10) 2 x W7 (W11)	4 x K6 (K10) 2 x W7 (W11)	6 x K6 (K10) 3 x W7 (W11)

9.3 Pin assignment



Contacts maximum load

K6	230 V/1 A/50 VA
W7	230 V/1 A/40 VA
Temperature contact	230 V/2 A/460 VA
K10*	230 V/0.5 A/10 VA
W11*	48 V/0.5 A/10 VA

* Only for floats SK601, SK221 and pipe Ø20 mm.

9.4 Pin assignment for temperature contacts/sensors

Plug type	Terminals	Pin assignment
M3	1-3	<p>Temperaturkontakte temperature contacts</p>
S6	5-6	
C6	5-6	
C7	6-7	

10 Attached documents

- Declaration of conformity KX100006
- RMA – Decontamination Declaration

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*

2014/35/EU
(Niederspannungsrichtlinie / low voltage directive)

Produkt / products: Niveauschalter Tankeinbau / *Level switch for top tank installation*
Typ / type: NS1/GFK-xx

Das Betriebsmittel dient zur Überwachung und zur visuellen Anzeige des Füllstandes in Tanks in
Fluidsystemen.

*The equipment is intended for monitoring and for visual display of the liquid level in fluid systems
tanks.*

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 61010-1:2010/A1:2019/AC:2019-04

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

Ratingen, den 10.06.2024

A handwritten signature in blue 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*

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	<input type="text"/>
Straße/ Street	<input type="text"/>
PLZ, Ort/ Zip, City	<input type="text"/>
Land/ Country	<input type="text"/>

Gerät/ Device	<input type="text"/>
Anzahl/ Quantity	<input type="text"/>
Auftragsnr./ Order No.	<input type="text"/>

Ansprechpartner/ Person in charge

Name/ Name	<input type="text"/>
Abt./ Dept.	<input type="text"/>
Tel./ Phone	<input type="text"/>
E-Mail	<input type="text"/>
Serien-Nr./ Serial No.	<input type="text"/>
Artikel-Nr./ Item No.	<input type="text"/>

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

Handelt es sich bei dem Gerät um ein sogenanntes Bühler O2-Ready Produkt (Artikelnummer endet mit „-O2“)?/ Is the device a Bühler O2-Ready product (item number ending with "-O2")?

- Nein/ No Ja/ Yes

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, Lebensge-
fahr/
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



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.

Vermeidung von Kontaminationen bei Produkten für hochreine Sauerstoffapplikationen (O2-Ready)

Handelt es sich bei dem Gerät um ein sogenanntes Bühler O2-Ready Produkt (Artikelnummer endet mit „-O2“), so ist dafür zu sorgen, dass es vom Ausbau des Artikels bis zur Anlieferung bei Firma Bühler zu keiner Kontamination medienberührender Teile kommt. Verschießen Sie Öffnungen und verpacken Sie das Gerät in ein luftdichtes Behältnis. Kennzeichnen Sie die Ware deutlich, insbesondere durch Angabe der vollständigen Artikelnummer (.....-O2) auf der ersten Seite dieses Formulars. Hierdurch wird sichergestellt, dass es auch unsererseits zu keiner unnötigen Kontamination kommt.

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.

Avoidance of contamination in products for high-purity oxygen applications (O2-Ready)

If the device is a Bühler O2-Ready product (item number ending with “-O2”), it must be ensured that there is no contamination of parts in contact with the medium from the time the item is removed until it is delivered to Bühler. Seal openings and pack the device in an airtight container. Mark the goods clearly, in particular by stating the full item number (.....-O2) on the first page of this form. This ensures that there is no unnecessary contamination on our part either.

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.

