

Operating instructions



Bourdon Tube Pressure Gauge Model 5008

for explosion risk areas pursuant to Directive 2014/34/EU (ATEX)

In the following configuration:

- ###5008###ATEX Bourdon tube pressure gauge



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1 General

The pressure gauge described in these operating instructions has been designed using the latest standards, guidelines and findings. During the manufacturing process, all components are subject to our high quality and environmental criteria. For this purpose we maintain a certified management system according to ISO 9001. For the special requirements of devices for intended use in potentially explosive atmospheres, we maintain a management system according to ISO 80079-34.

The source language of this technical documentation is German; all other languages are based on translations.

1.1 Purpose of the instructions

These operating instructions contain basic instructions that must be followed for the installation, operation and maintenance of the device. It must be read by the installer, the operator and the specialist personnel responsible for the device before installation and commissioning of the device. These operating instructions must always be available at the place of use.

The following sections on general safety instructions 2 as well as the following special instructions on intended use 2.2 to disposal 11.2 contain important safety instructions, the non-observance of which may cause health and safety hazards to people, in particular to workers, and possibly to domestic animals and goods.

1.2 Symbols

Warning.



...indicates a potentially hazardous situation which, if not avoided, may result in risks to the health and safety of persons, in particular workers, and, where appropriate, to domestic and farm animals and property.



Information.

... highlights important information for efficient and trouble-free operation.

1.3 Limitation of liability

Improper use of the devices, disregarding the operating instructions, the use of unqualified personnel for installation and maintenance work as well as unauthorized modifications to these devices will inevitably result in the loss of liability claims against the device manufacturer.

1.4 Copyright

These operating instructions may only be reproduced and passed on as a complete document without the special consent of the publisher.

Subject to technical changes.

1.5 Warranty

For the product described here we grant warranty according to § 6 warranty for defects of our General Terms and Conditions of Delivery and Payment.

1.6 Manufacturer address, customer service

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2 Security

2.1 General sources of danger

Pressure gauges are pressurized parts whose failure can lead to hazardous situations. The selection of the pressure gauge should be made according to the rules set out in EN 837-2.

2.2 Intended use

The devices may only be used for the purpose intended by the manufacturer.

The intended use of the devices, as determined by the manufacturer, is the direct indication of negative and positive overpressures in potentially explosive atmospheres.

According to the Pressure Equipment Directive 2014/68/EU, the equipment is classified as pressure-maintaining equipment without a safety function in accordance with Article 4(3) of the Directive.

When operating the device, it must be ensured that the medium used is harmless for the selected device material. Measuring materials which show changes of the aggregate state within an application range can influence the functionality. Negative influences must therefore be avoided. The application areas of these media must be within the technical limits of the device.

Further technical data for the intended use are summarized in the product data sheets, see chapter 12.1 of this manual.

2.3 Responsibility of the operator

Instructions for the proper operation of the device must be observed. They are to be provided by the operator, the respective qualified personnel for installation, maintenance and operation. Hazards due to magnetic fields, electrostatic charges and escaping media due to improper connection of the device must be excluded. The device must be included in the equipotential bonding within the system; this can be ensured by selecting electrically conductive seals.

The device must be taken out of operation and secured against unintentional operation if it must be assumed that safe operation is no longer possible (see chapter 10 Malfunctions).



Opening the device and making technical changes by the customer violate the explosion protection approval and are not permitted.

The operational safety of the device and the manufacturer's warranty are only guaranteed if the device is used as intended. The device design as well as a possible enclosure filling must be adapted to the medium used in the system and the potentially explosive atmosphere. The limit values specified in the technical data must not be exceeded.

The safety instructions listed in this operating manual, existing national regulations for accident prevention and internal work, operating and safety regulations must be observed by the operator. Furthermore, he is responsible for ensuring that all prescribed maintenance, inspection and installation work is carried out by authorised and qualified personnel.

The device is to be regarded as a pressure-maintaining piece of equipment within a plant in a potentially explosive atmosphere. The operator of this system is obliged to carry out an ignition hazard analysis and a zone classification.

2.4 Personnel qualification (target group assessment)

The device may only be installed and commissioned by trained specialist personnel.

Qualified personnel are persons who are able to perform the work assigned to them due to their specialized training, experience and knowledge of the country-specific regulations, applicable standards and directives. For explosion-protected devices, the personnel must be trained or instructed or authorized to work on explosion-protected devices in hazardous areas.

2.5 Signs/safety marking

The measuring device and its outer carton are provided with a label. This shows the article number, measuring range and manufacturer. The meter may have additional labels and safety marks indicating special conditions:

- Reference to filling liquid
- Note on calibration
- Safety mark according to EN 837-1
- Ex (for ATEX version)
- Oil can painted (for oxygen use)
- Silicone-free (for use in automotive industry)

2.6 Safety devices

The viewing pane is made of laminated safety glass, no other material options are permitted here.

2.7 Environmental protection

This device may optionally contain filling liquid (e.g. glycerine or silicone oil). The provisions of the Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) 2006/1907/EC must be observed, the corresponding safety data sheets of the manufacturers of the chemicals, are available for download on our website. At the end of the product life cycle, we recommend to recycle the devices, as they are mostly made of stainless steel. Instructions for disassembly, material separation and disposal can be found in chapter 11.1 and 11.2.

3 Use in potentially explosive atmospheres according to Directive 2014/34/EU ATEX

3.1 Range of use:

Potentially explosive atmospheres Zone 1 and 2, as well as 21 and 22, hazard due to gases and dry dusts.

The permissible environment has the usual oxygen content (21%), ambient pressure 80 kPa (0.8 bar) to 110 kPa (1.1 bar).

The requirements of the applicable standards EN ISO 80079-36, EN ISO 80079-37, were considered by an ignition hazard assessment. The applicable requirements of these standards have been met.

The documents have been deposited at TÜV-Nord-Cert NB 0044 (see declaration of conformity).

Ambient temperatures:

Version	Min. / Max. permissible ambient temperature
Dry execution	-40 °C to +60 °C
Glycerine filled devices	-7 °C to +60 °C
Silicone filled devices	-40 °C to +60 °C

The temperature influence on the accuracy in case of a deviation from the reference temperature 20 °C according to DIN EN 837-1 (chapter 9.1) is max. $\pm 0.4 \% / 10 \text{ K}$ of the full scale value.

To avoid additional influences on the device, they must not be exposed to direct sunlight during operation.

Medium temperatures:

Permissible maximum medium temperature in the measuring system	
Dry execution	Liquid filled devices
≤200 °C	≤100 °C

The medium temperature depends on the ignition temperature of the surrounding gas, vapour or dust, the design of the device, in particular the pressure change rate and the surface, as well as the ambient temperature and other external heat sources. The device itself does not have its own heat source.



With gaseous substances, the temperature can increase due to heat of compression. Rapid pressure changes should always be avoided. As a suitable protective measure, it is recommended to reduce the rate of pressure change.

Temperatures in explosive atmospheres - Gases and vapours

EPL	Temperature classes Ignition temperatures <u>for gases and vapours</u>	Permissible, max. surfaces incl. ambient temperature	
		Dry execution	Fluid filled devices
Gb	T1 (> 450 °C)	200 °C	100 °C
	T2 (> 300 °C ... ≤ 450 °C)	200 °C	100 °C
	T3 (> 200 °C ... ≤ 300 °C)	160 °C	100 °C
	T4 (> 135 °C ... ≤ 200 °C)	105 °C	100 °C
	T5 (> 100 °C ... ≤ 135 °C)	80 °C	80 °C
	T6 (> 85 °C ... ≤ 100 °C)	65 °C	65 °C

The maximum surface temperature including the ambient temperature, for the application on site, depends on the device type with its technical specifications. The lowest temperature limits apply in each case.

Temperatures in explosive atmospheres - Dusts

For the determination of the ignition temperature, the method according to ISO/IEC 80079-20-2 shall be used. This can only be carried out by the user on site for individual cases. The device-specific properties as well as the limit temperatures of the dusts and their form as a deposited layer or in the form of a surrounding dust cloud must be taken into account here. For this reason, the ignition temperatures must be determined separately. In the case of dust layers, the thickness of the dust layer must be taken into account as a further criterion.

EPL	Ignition temperature	Permissible max. surface temperature Dusts
Db	Minimum ignition temperature for dust clouds $T_{\text{Cloud}} [^{\circ}\text{C}]$	$T_{\text{max}} = 2/3 T_{\text{cloud}}$
	Minimum ignition temperature for dust layers $T_{5\text{mm}} [^{\circ}\text{C}]$	$T_{\text{max}} = T_{5\text{mm}} - 75\text{K}$

The device protection for an explosive dust atmosphere, can only be used with closed ventilation valve.

In the event of a fault, the maximum medium temperature may be taken as the surface temperature to be determined. If the device is installed in a location that is exposed to the weather, these influences must be minimized by taking suitable measures. To avoid additional heating, the devices must not be exposed to any external heat source during operation! Convection heat from the direct environment of the devices must also be avoided.



The devices must not be operated in potentially explosive areas of a plant in which an explosive mixture of gases and dusts is present in the atmosphere.

Labeling:

Ex marking according to 2014/34/EU				Ex marking according to ISO 80079-36 / 80079-37				
CE	Ex	II	2G 2D	Ex h	IIC IIIC	T6...T1 T85°C...T450°C	Gb Db	X
CE	CE marking							
Ex	Indicator for explosion protection							
II	Group II equipment is intended for use in locations with explosive gas atmospheres, excluding firedamp and/or dust from hazardous mining operations.							
2G	Equipment group for gases and vapours in which an explosive atmosphere may occasionally occur during normal operation.							
2D	Equipment group for dusts in which an explosive atmosphere may occur during normal operation or for a short period.							
Ex h	Marking according to the equipment protection level for non-electrical equipment in potentially explosive atmospheres							
IIC	Suitable for gas atmosphere IIC							
IIIC	Suitable for flammable suspended solids, non-conductive and conductive dust							
T6...T1 T85°C...T450°C	Maximum surface temperatures which are mainly dependent on the operating conditions							
Gb	Equipment protection level for gases containing all potential ignition sources which are effective, which may occur during normal operation, in rare and expected faults.							
Db	Equipment protection level for dusts containing all potential ignition sources which are effective, which may occur during normal operation, in rare and expected disturbances.							
X	Special operating conditions must be observed and can be found in the operating instructions.							

3.2 Special operating conditions for safe use in potentially explosive atmospheres

- Maintenance work to be carried out, from chapter 9 (such as refilling the devices with the filling medium) by unauthorised personnel can result in damage and lead to the loss of the approval.
- To avoid possible spark generation due to static charge, the device should always be cleaned with a damp cloth.
- The legibility of the type plates must be checked at regular intervals. It must remain legible throughout the entire period of use of the device. If a reliable reading is no longer given, please contact the manufacturer.
- Impacts on the device must be avoided at all costs. Impacts or shocks can produce sparks.
- It is the responsibility of the operator to evaluate attached process components or accessories together with the delivered device by means of an ignition hazard analysis. The operator must recognize the ignition hazards and prevent them by using appropriate protective measures.

The operator must comply with the points from chapter 2.3 "Responsibility of the operator".

4 Technical data

For detailed technical data please refer to the documents in the appendix chapter 12.

5 Marking of the device

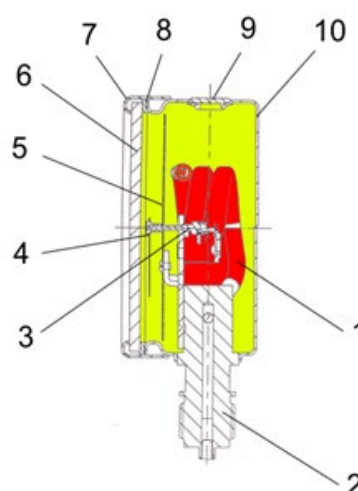
The nameplate contains the type designation, the permissible ambient temperature, the measuring range and the marking for potentially explosive atmospheres:



6 Structure and function

6.1 Overview

- | | |
|----|---------------------------------------|
| 1 | Bourdon tube |
| 2 | Spring carrier and process connection |
| 3 | Measuring plant |
| 4 | Pointer |
| 5 | Dial |
| 6 | Viewing window |
| 7 | Flared ring |
| 8 | Gasket |
| 9 | Vent valve |
| 10 | Housing |



6.2 Functional description

An elastic measuring element in the form of a Bourdon tube (circular or helical, depending on the measuring range) is welded to a spring carrier. It is pressurized on one side from the inside. A pressure transmission medium can be gaseous or liquid, depending on the material and design used.

When pressure is applied, an elastic deflection from the normal position takes place. This deflection is proportional to the applied pressure. At the end of the Bourdon tube, a tension rod picks up the deflection and transmits it to a movement. The measured value is displayed on a 270° scale.

The requirements for indicating pressure gauges with Bourdon tubes are in accordance with EN 837-1.

6.3 Description of the components

6.3.1 Scale with pointer

The meter is equipped with dial and pointer according to EN 837-1 for nominal size 63 mm.

6.3.2 Instrument connection

The instrument connector is located on the bottom or centrally on the back of the meter.

6.3.3 Ventilation valve

The vent valve is located on the top of the unit. When the nipple (pull) is pulled out, the housing is ventilated and the pressure built up in the housing due to temperature influence is relieved.

When the valve is closed, the degree of protection IP66/IP67 according to EN 60529 / IEC 60529 is achieved.



When the valve is open, the degree of protection is reduced to the minimum requirement according to EN 80079-37 chap. 5.2.2a.

6.4 Accessories

Please contact the manufacturer for information on special sealing materials and accessories.

7 Transport

The device must be protected against impact. Transport must be carried out exclusively in the glass-break-proof packaging provided for transport. The transport may only be carried out in a cleaned condition (free of residual medium).

7.1 Delivery

The delivery is to be checked for completeness and transport damage. In the event of transport damage, the delivery is not to be accepted or only with reservations, the extent of the damage is to be noted and, if necessary, a complaint is to be initiated. In these cases, please contact our service department.

7.2 Storage

The storage of the devices should exclude external influences as far as possible in order to avoid damage to the devices. Vibrations or impact effects must be avoided, the limit values of the storage temperatures must be taken into account.

Permissible storage temperature:

-40 °C to +60 °C

Glycerine-filled devices -20 °C to +60 °C

8 Assembly/Installation

8.1 Security

In order to ensure safe working during installation and maintenance, suitable shut-off valves must be installed in the system, by means of which the unit can be

- can be depressurised within the installation concerned for the purpose of repair or inspection,
- can be subjected to a functional check on site.

During assembly/installation work, the system must be secured against being switched on again.

It is recommended to carry out the assembly / installation without an existing explosive atmosphere (e.g. ventilated room).

8.2 Requirements for the installation site)

- Check the suitability of the device for the medium to be measured,
- Design of the measuring range to the requirements of the measurement,
- a measuring device holder must be installed if the measuring line does not have sufficient load-bearing capacity,
- Units with air outlet require a minimum distance to the rear of at least 20 mm,
- The installation location must be selected so that the workplaces of the operating personnel are not located at the rear of the measuring device,
- Protection against pressure surges by means of suitable pressure surge reducers,
- Protection against mechanical vibration e.g. by a flexible pressure line
-

8.3 Process connection

The process connections comply with the general technical regulations for pressure gauges. Thread types as well as materials of the process connections may vary depending on the application.

- Installation of the device only by authorized and qualified personnel.
- The device must be integrated into the equipotential bonding of the system (e.g. by means of an electrically conductive seal).
- The pressure measuring line must be laid with a gradient so that, for example, no air bubbles can occur during liquid measurements. If the necessary gradient is not achieved, separators must be installed at suitable points or the device must be pre-filled.
- The pressure measuring line should be kept as short as possible and laid without sharp bends.
- In the case of liquid measuring media, the pressure connection line must be vented, as trapped air bubbles could lead to a measuring error.
- It must be ensured that the blow-out rear wall is not blocked and that a sufficiently large distance to the next stationary object is guaranteed.
- If water is used as the measuring medium, the device must be protected against frost.
- The unit is adjusted at the factory for vertical installation.



Carry out assembly only with the appropriate open-end wrench on the intended wrench surface. The tightening torque depends on the sealant used.

8.4 Commissioning

A prerequisite for commissioning is the proper installation of all measuring lines. All connection lines must be laid in such a way that no mechanical forces can act on the device.

Before commissioning, the tightness of the pressure connection line must be checked.

Any shut-off valves must be opened slowly to avoid pressure surges.

8.5 Change of the place of operation



Do not dismantle the device from the measuring point in order to mount it at another measuring point without cleaning it first (cleaning the bourdon tube). There is a risk of mixing media with unpredictable chemical reactions.

9 Maintenance

The devices are low-maintenance. To ensure reliable operation and a long service life of the device, we nevertheless recommend a regular inspection of the device. During maintenance work on the device, the lines must be depressurised to prevent the device from being put back into operation.

9.1 Functional check and recalibration

Calibrations

For our devices we recommend a calibration interval of:

- Devices class ≥ 1.6 Recalibration at intervals of two years

Functional tests

The exact test cycles are to be adapted to the operating and ambient conditions. When various device components interact, the operating instructions of all other devices must also be observed.

- Checking the display.
- Checking the function in connection with add-on components.
- Check the pressure connection lines for damage and leaks.
- Control of the filling liquids, the filling level must not fall below 80 to 85 % of the viewing window diameter.

9.2 Cleaning and maintenance

Cleaning is carried out with a non-aggressive cleaning agent and a damp, soft cloth to avoid electrostatic charging. In the same work process, care can be taken to detect possible damage to the device at an early stage. If damage is detected, the device should be handed over to the manufacturer's service department immediately.

10 Malfunctions

All defective or defective devices must be taken out of service. Defective or defective devices should be handed over immediately to the manufacturer's service department. Under no circumstances should repair attempts be made on site. The safety of the device can no longer be guaranteed.

Contact details see chapter 1.6

10.1 Behaviour in the event of malfunctions

All defective devices or devices with defects are to be taken out of operation. If a repair is to be carried out, the device must be sent directly to our repair department. We ask that all device returns be coordinated with our service department.

Malfunctions	Possible causes	Possible measures
Erratic or random pointer movement	defective movement due to high vibrations of the system	Check mounting errors and installation location. Decoupling system - device Replace device if necessary
No zero setting of the pointer in the depressurized state	Device was overloaded, operation outside the device specification	Replacement of the device, Repair is usually no longer possible.
Bent pointer axis or loose pointer	Damage in transit or external rough impact	Repair by the manufacturer
cracked window	External influences	Repair by the manufacturer
Leakage with filled device	High solar radiation, operation outside the device specification	Repair by the manufacturer
Housing damage	Improper handling	Check installation location, Device must be replaced
Signs of leakage of the measuring system (discoloration of the dial or the filling liquid)	Measuring fluid not compatible with the material used for the Bourdon tube, installation location with excessive external influences	Improper use, Replace device Shield installation site or relocate installation site. Diaphragm seal required.

10.2 Behaviour after rectification of the fault

See chapter 8 Assembly/Installation

11 Dismantling, disposal

11.1 Disassembly

- During maintenance work on the device, the lines must be depressurized and the system must be secured against being switched on again.
- Dismantle the measuring device with a suitable tool.
- For devices with housing filling, close the vent plug before disassembly.



Residual media in and on dismantled measuring devices can endanger people, the environment and equipment. Sufficient precautionary measures must be taken. If necessary, the devices must be cleaned thoroughly (see instructions in the safety data sheets).

11.2 Disposal



At the end of the product life cycle, do not dispose of this product with your normal household waste. Take this product to a collection point or waste management facility for recycling of the components.

With the help of the product coding and our data sheets (see appendix 12 available on our website) you will receive the necessary information to be able to carry out a material separation yourself. Our devices described in these instructions are mostly made of stainless steels which can be recycled. Before dismantling, check whether there is a device filled with oil. This oil must first be drained off and collected in accordance with the safety instructions in the safety data sheet. Then separate the housing ring, which carries the sight glass, from the housing using a strap wrench. In the case of device types with crimped housing rings, these can be cut open with pliers. The sealing ring and flat glass can be removed. Next, they remove the pointer and dial, which are made of aluminum, everything else is made of stainless steel.

Materials to be recycled:

- Filling medium (oil see data sheet)
- Stainless steel (case, case ring, Bourdon tube support, Bourdon tube, movement see data sheet)
- Dial and hands (aluminium)
- Window (see data sheet glass)
- Seals (sealing ring of the inspection window, venting device, pressure relief device)

Please help to protect our environment!



Some of the product materials can be reused if you take the product to a collection point or a waste management company. By reusing some parts or raw materials from used products, you are making an important contribution to protecting the environment.

Our products are delivered in optimised packaging. This essentially means that materials are used that can be recycled as secondary raw materials at the local disposal service. For more information on the disposal of packaging, please contact your local authority.






12 Appendix

12.1 Data sheet Bourdon tube pressure gauge 5008

Detailed data sheets are available directly from the manufacturer (see 1.6 Manufacturer's address, customer service).

Model	Designation	Document
5008	Stainless Steel Pressure Gauge Model 5008	DS 635008

12.2 Declaration of Conformity

 ASHCROFT® Trust the shield.®	EU-Konformitätserklärung <i>EU-Declaration of Conformity</i> DIN EN ISO IEC 17050-1:2010
Ashcroft Instruments GmbH Max-Planck-Straße 1-9 52477 Alsdorf	
erklärt in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte <i>declares in sole responsibility that the products marked with CE</i>	
Gerät: <i>Equipment:</i>	Druckmessgerät vom Typ 5008 mit federelastischem Messglied <i>Pressure gauge Type 5008 with elastic measure element</i>
Kennzeichnung: <i>Marking:</i>	  II 2G Ex h IIC T6...T1 Gb X II 2D Ex h IIIC T85°C...T450°C Db X Ta = -40°C to +60°C
Optional: GR <i>Option:</i>	Ta= -7°C bis +60°C mit Glycerin Füllung <i>Ta= -7°C to +60°C with glycerine filling</i>
Herstellungsdatum: <i>Date of manufacture:</i>	ab 01.11.2024 <i>from 01.11.2024</i>
die grundlegenden Sicherheits- und Schutzanforderungen erfüllen, in Übereinstimmung mit den unten genannten Richtlinien und Normen. Die Konformitätsaussage bezieht sich auf die Konzeption und Fertigung der oben genannten Produkte. <i>the fundamental safety and protection requirements passed in accordance with the guideline and standards listed below. This declaration of conformity refers to the design and manufacture of the above products.</i>	
ATEX Richtlinie <i>ATEX Directive</i>	2014/34/EU „Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen“ <i>“equipment and protective systems intended for use in potentially explosive atmospheres”</i>
Angewendete harmonisierte Normen <i>Used harmonized Standards</i>	DIN EN ISO 80079-36:2016 DIN EN ISO 80079-37:2016
Benannte Stelle <i>Notification Body</i>	Code number of notified Body: 0044 TÜV NORD CERT Langemarkstrasse 20 45141 Essen, Germany
Hinterlegungsnummer: <i>Dossier File No.:</i>	35118307
Ashcroft Instruments GmbH Fon: +49 (0)2401-808-888 eMail: customer.service@ashcroft.com www.ashcroft.eu	
 	

Druckgeräte Richtlinie <i>PED Directive</i>	(1)2014/68/EU „Druckgeräterichtlinie“ <i>„Pressure Equipment Directive“</i>
Angewendete Prüfnormen: <i>Used test standards:</i>	EN 837-1,2,3:1996
(1) PS >200 bar und V <0,1l, Artikel 4 Drucktragende Ausrüstungsteile, Modul A <i>PS >200 bar and V <0,1l, Article 4 Pressure Accessories, Module A</i>	
RoHS Richtlinie <i>RoHS Directive</i>	2011/65/EU „Richtlinie zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten“ <i>“Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment”</i> 2015/863/EU „Änderung von Anhang II der Richtlinie 2011/65/EU“ <i>“Amending Annex II to Directive 2011/65/EU”</i>
Einstufung <i>Classification</i>	Einstufung des Produktes nach Anhang II Punkt 9 der Richtlinie „Überwachungs- und Kontrollinstrumente einschließlich Überwachungs- und Kontrollinstrumente in der Industrie“ <i>Classification of the product according to Annex II, point 9 of the Directive “Monitoring and control instruments, including industrial monitoring and control instruments”.</i>
Das oben benannte Produkt erfüllt die derzeit gültigen Vorschriften der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates vom 8. Juni 2011 sowie der Delegierten Richtlinie 2015/863/EU der Kommission vom 31.03.2015. <i>The above-mentioned product comply with the currently valid provisions of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and the Commission Delegate Directive 2015/863/EU of 31 March 2015.</i>	

Baesweiler, den 25.10.2024
 Ort und Datum
Place and date



ATEX Verantwortlicher
 ATEX Manager

Digitale Ausführungen nur mit validierter Unterschrift gültig. Die gültige Validierung ist in einem unveränderten Dokument enthalten.
Digital executions valid only with validated signature. The valid validation is included in an unmodified document.