





V31

Supplementary Operating Instructions for Hazardous Locations





This operating manual contains important information for the operation in potentially explosive atmospheres Please read the instructions carefully and store them in a safe place for future reference



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1. General Instructions

1.1 Steps Prior to Operation



Prior to installation and operation, it is essential that the operator familiarizes himself with all of the instructions and information contained in the manual for non-explosion proof Variable Area Flow Meters V31 series as well as the present instructions. If any part of either manual is missing, contact Heinrichs Messtechnik GmbH to request a new manual. These manuals can also be downloaded

from our website..

These supplementary Operating Instructions for Hazardous Locations apply to <u>explosion proof non-electrical</u> <u>versions</u> of the Variable Area Meters V31 series. These instructions are a supplementary operating manual for the non-explosion proof operating manual versions. If you do not have a copy of the latter instructions, please request one from Heinrichs Messtechnik GmbH or download the instructions from our website.

The information in this manual contain essentially only the data relevant to explosion protection. The technical data in the mounting and operating instructions for non-explosion proof versions still apply insofar as the present instructions do not replace them or exclude their application.

1.2 Mounting, Set-up, Start-up and Maintenance

Installation, set up start up and maintenance are to be performed by a technician trained to work with explosionproof devices, or by a Heinrichs Messtechnik service technician



Warning

Any maintenance or repair that safety relevant in terms of explosion-protection is to be carried out by the manufacturer, an authorized Heinrichs

Heinrichs Messtechnik GmbH accepts no liability for any loss or damage of any kind arising from improper operation of any product, improper handling or use of any replacement part, or from external electrical or mechanical effects, overvoltage or lightning. Any such improper operation, use or handling shall automatically invalidate the warranty for the product concerned. For consequential damages due to a.m. reasons, no liability will be accepted.

In the event of a problem please contact the service centre of Heinrichs Messtechnik:

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Phone: +49 221 49708-0

Fax: +49 221 49708-178

Internet: www.heinrichs.eu

Email: info@heinrichs.eu

Contact our customer service department if your device needs repair or if you need assistance in diagnosing a problem with your device.



1.3 Hazard Warnings

The purpose of the hazard warnings listed below is to ensure that device operators and maintenance personnel are not injured and that the flow meter and any devices connected to it are not damaged.

The safety advisories and hazard warnings in the present document that aim to avoid placing operators and maintenance personnel at risk and to avoid material damage are prioritized using the terms listed below, which are defined as follows in regard to the instructions herein and the advisories pertaining to the device itself.



means that failure to take the prescribed precautions **could result** in injury, substantial material damage or even death. Always comply to these warnings and proceed with caution.



means that failure to take the prescribed precaution <u>could</u> <u>result</u> in material damage or destruction of the device. We advice always to abide to these instructions!



means that the accompanying text contains important information about the product, handling the product or about a section of the documentation that is of particular importance.

1.4 Intended Use of the Device



Warning:

The operator is responsible for ensuring that the material used in the sensor and transmitter housing is suitable and that such material meets the requirements for the fluid being used and the ambient site conditions. The manufacturer accepts no responsibility in regard to such material and housing.



Caution:

In order for the device to perform correctly and safely, it must be shipped, stored, set up, mounted operated and maintained properly.



2. Identification

2.1 Manufacturer

Manufacturer: Heinrichs Messtechnik GmbH Robert-Perthel-Strasse 9 D-50739 Cologne Germany



(a)

 Phone:
 +49 221 49708-0

 Fax:
 +49 221 49708-178

 Internet:
 www.heinrichs.eu

 Email:
 info@heinrichs.eu

Product type: Area-Flow meter for liquid and gaseous media

Product name:	V31
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File name: v31-ex_ba_21.02_en.doc

Version:. 21.02 Date, 25/11/2021

Contact Details of Importer

2.2 Assessment / Certification

The Variable Area Flow Meter V31 in the non-electrical version was tested by the manufacturer under the Ex-Directive 2014/34/EU according to following standards:

DIN EN 1127-1:2019 /	Explosive atmosphere, basis concept and methodology
BS EN 1127-1:2019-10	
and	
DIN EN ISO 80079-36:2016 /	Non-electrical equipment for use in hazardous areas
BS EN ISO 80079-36:2016-04	Part1: Principles and requirements

The technical documentation, according to 2014/34/EU Article 8, paragraph 1b ii guideline was deposited at the notified Body; **DEKRA Testing and Certification GmbH** under the registration number: **BVS 10 ATEX H/B 119.**

The technical documentation, according to the potentially explosive atmospheres regulation 2016; is deposited at the notified Body; **SGS Baseefa Ltd** under the registration number: *(Pending)*



3. Principles and Marking of Explosion Protection Equipment

	Exa	mple designation		L L 0158	∕xy	 2G	Ex	h	Т6
Equip	ment gr	oups							
I.	Equipm parts of endance	ent group I applies to e f mines as well as those ered by firedamp and/o	equipment intende e parts of surface or combustible du	d for use in undergrou installations of such m st.	nd nes				
II	Equipm liable to into thr	ent group II applies to e be endangered by exp ee categories.	equipment intend plosive atmosphe	ed for use in other plac es. This group is subd	es vided				
Equip	ment ca	itegory							
Gas	Dust	Definition							
1G (0)	1 D (20)	Equipment in this cate explosive atmosphere vapours or mists or by for long periods or free	gory is intended f s caused by mixtures air/dust mixtures quently.	or use in areas in whic ires of air and gases, are present continuou	n sly,				
2 G (1)	2 D (21)	Equipment in this cate explosive atmospheres mixtures are likely to o	gory is intended f s caused by gase occur.	or use in areas in whic s, vapours, mists or ai	n /dust				
3G (2)	3D (22)	Equipment in this cate explosive atmospheres mixtures are unlikely to only infrequently and f	gory is intended f s caused by gase o occur or, if they or a short period	or use in areas in whic s, vapours, mists, or a do occur, are likely to only.	n r/dust do so				
The n	numbers	in round brackets corre	spond to the IFC	Zones.)					
Ex = E	Explosic	on-proof equipment							
Exam	ples of	electrical types of prot	tection						
	Genera	l requirements		EN DIN 60079-0					
"d"	Flamep	roof enclosure (db, dc)		EN DIN 60079-1					
"e"	Increas	ed safety (eb, ec)		EN DIN 60079-7					
"i"	Intrinsi	c safety (ia, ib, ic)		EN DIN 60079-11					
"t"	Equipr enclos	ent dust ignition protec ure "t" (ta, tb, tc)	tion by	EN DIN 60079-31					
Non-e	electrica	I types of protection							
"h"	Basic N	lethod and requirement	ts	DIN EN ISO 80079-36					
Explo	sion gro	oups							
Gases	s and va	oours							
IIA	Aceton	e, benzene, fuel oil, eth	anoic acid						
IIB	City ga	s, ethylene, isoprene							
IIC	Acetyle	ne, hydrogen, carbon b	isulphide						
Dust A	Atmosph	eres							
	Fibers	and flyings							
IIIA	Non-co	nductive dusts							
IIIA IIIB	11011 00	usta							
IIIA IIIB IIIC	Metal c	usis							
IIIA IIIB IIIC Femp	Metal c	classes		Tomperature					
IIIA IIIB IIIC Temp	Metal of Met	classes ximum surface tempera	ature	Temperature clas	s				
IIIA IIIB IIIC Fempo	Metal c erature Ma 450 °C	classes ximum surface tempera 842	ature 2°F	Temperature clas	s				
IIIA IIIB IIIC Temp	Metal c erature Ma 450 °C 300 °C	classes ximum surface tempera 842 572	ature 2 °F 2 °F	Temperature clas T1 T2	S				
IIIA IIIB IIIC Temp	Metal c erature Ma 450 °C 300 °C 200 °C	classes ximum surface tempera 842 572 392	ature °F °F °F	Temperature clas T1 T2 T3	S				
IIIA IIIB IIIC Temp	Metal c erature Ma 450 °C 300 °C 200 °C 135 °C	classes ximum surface tempera 842 572 392 275	ature °F ? °F ? °F 5 °F	Temperature class T1 T2 T3 T4 T5	S	 			
IIIA IIIB IIIC Tempo	Metal c erature Ma 450 °C 300 °C 200 °C 135 °C 100 °C	classes ximum surface tempera 842 572 392 275 212	ature °F °F °F °F °F	Temperature class T1 T2 T3 T4 T5 T0	s	 			
IIIA IIIB IIIC Fempo	Metal c metal c erature Ma 450 °C 300 °C 200 °C 135 °C 100 °C 85 °C	classes ximum surface tempera 842 572 392 275 212 185	ature 2 °F 2 °F 3 °F 5 °F 6 °F	Temperature class T1 T2 T3 T4 T5 T6	S				

Explosion protection designations [square brackets] refer to "Related electrical equipment or circuits."



4. Safety Instructions



Warning:

Only devices with Ex marking may be operated in hazardous areas!



4.1 Atmospheric Conditions

According to DIN/BS EN 1127-1 a hazardous area is defined as a mixture of air and flammable gases, vapours mist or dust under atmospheric conditions. These are defined according to DIN/BS EN ISO 80079-36, para 1 with following values: Tatm = -20° C ... $+60^{\circ}$ C and Patm = 0.8 ... 1.1 bar. Outside of this range, there are no safety related parameters available for most ignition sources.

Inside the tube, Variable Area Flow Meters typically work outside of the defined atmospheric conditions of 0.8 ... 1.1 bar. Therefore, regardless of zoning, explosion protection cannot be applied due to a lack of safety related characteristics.

The operation with flammable media is therefore only permissible if no explosive atmosphere (medium / air mixture) can be formed inside the Flow Meter. If this condition is not met, the risk of ignition must be evaluated by the operator in each individual case has, taking into account the existing parameters (e.g. pressure, temperature, medium, construction materials of the tube).

4.2 Hot Surfaces

The unit possesses no own energy sources, which would lead to an increase in surface temperature. Thus, the maximum surface temperature is therefore dependent on the operating conditions (such as fluid temperature, heat radiation or with heating jacket version of the heating medium).

For this reason, a temperature class / surface temperature range is stated on the rating plate of the device. Further information is given in these operating instructions. The max. permissible ambient and operating temperatures corresponds to those of the standard operating instructions.

4.3 Electrostatic Charge

4.3.1 Electrostatic charge of non-conductive parts of the housing during cleaning.



Warning:

The protective cover of the measuring glass is produced of non-conductive polycarbonate which when cleaned with a dry cloth could become electro statically charged due to friction and thus generate an ignitable spark.

Therefore, to prevent electrostatic charging clean only with a damp cloth.

See also the warning on the instrument.

Achtung! / Caution!

Gefahr elektrostatischer Aufladung! Nicht reiben! Danger of electrostatic charge! Do not rub!



4.3.2 Process Related Charges

The transport of non-conductive liquids or gases in Variable Area Flow Meters can operationally lead to a charge separation inside the measuring tube. To ensure such electrostatic build-up are discharged, Variable Area Flow Meters must therefore be permanently grounded by the operator. If grounding is not viable via the process connections (e.g. plastic process pipes) the flow meter must be connected to the grounding screw [1], which is located at the rear instrument panel, via a cable to the local equipotential bonding.



(1) connection screw for grounding

4.4 Mechanical Shock Resistance

The instruments have been type tested for impact strength in accordance with DIN/BS EN ISO 80079-36. The devices were equipped with a polycarbonate protective cover for the glass measuring cone. The requirements with impact energy of 7 Joule to metal parts and at 4 joules translucent parts were met.



Warning:

Install the Variable Area Flow Meter with its glass measuring tube so that it is protected from mechanical impacts and damage.

4.5 Operation in Dust Potentially Hazardous Areas

With regard to surface temperatures and dust deposits, the requirements for establishment according to DIN/BS EN 60079-14 " Electrical installations design, selection and erection" must be met.

When used in potentially explosive dust environments, regular cleaning is required to avoid dust deposits from exceeding a thickness of <u>5mm.</u>

4.6 System Start-up and Shut-down

In the case of gases, slowly increase the operating pressure. The operating pressure must be varied by means of an adjusting valve so not to expose the float to hammering, otherwise damage to the measuring unit or ignition sparks may occur.

A maximum medium speed of 15 m/s must not be exceeded.

For devices with flange connections, the union nut must be tightened firmly **<u>before</u>** the flange connection is established.



4.7 Installation Conditions

For the Ex- version of the V31, the same installation conditions are valid as described in the operating instruction of the standard instrument.

It must be insured by the operator that the maximum ambient- and fluid temperatures of the instrument does not exceed the prevailing temperature class of the hazardous area.

The maximum permissible process temperature is indicated on the meters marking plate.

In addition the operator is to consider the dangers presented by hot surfaces in accordance with the requirements of DIN/BS EN 1127-1:2019 (Explosion protection–Principles and Methods) paragraph 5.1 and 6.4.2.



Warning:

Compensation and stray currents can flow across the body of the flow meter. To reduce the risk of igniting an explosive atmosphere, the operator must ensure that measures are taking to eliminate the risk of compensation and stray currents, e.g. by earthing the piping system.

Refer also, for example, to the German Technical Regulations for Flammable Liquids TRbF 50.

4.7.1 Tool selection

When installing the flowmeter in an ATEX Zone 1 or Zone 2 area and the presence of an explosive atmosphere cannot be excluded, only tools capable of producing single sparks, such as screwdrivers or spanners shall be used.

If the presence of Gas group IIC substances (Hydrogen, Acetylene, Carbon Disulphide), or the danger of explosion through Hydrogen Sulphide, Ethylene Oxide or Carbon Monoxide cannot be excluded, the use of tools of any kind capable of producing sparks is forbidden for the installation in Zone 1 environments.



Warning:

Tools which generate spark showers, such as grinding or separating tools, should not be used for installation and maintenance work in Zone 1 or Zone 2 where a dangerous explosive atmosphere cannot be excluded.

Before performing installation or maintenance work in a Zone 21 or 22 dust environment using grinding or separating tools, the workplace is to be shielded from the rest of the Zone and it is to be ensured that all dust deposits within that area have been removed.

4.8 Marking

4.8.1 Without electrical equipment

In the basic version the flow meter is a *non- electrical equipment* under <u>intended operation</u> without own sources of ignition and complies with the requirements of DIN/BS EN ISO 80079-36 and can be used in hazardous areas requiring instruments of category 2.

Marking:







Marking plate for gas and dust atmospheres



4.8.2 With external mounted limit switches

The Variable Area Flow Meter can be equipped with external limit switches. These limit switches must possess either:

- a Type examination certificate according to EN 60079 ff or,
- they must meet the requirements of "simple apparatus" according to DIN/BS EN 60079-11 / section 5.7

The Ex marking is printed on the name plate of each switch.



Caution:

Magnetic-field sensors supplied by Heinrichs Messtechnik possess no type examination certificate. It is therefore essential that the electrical parameters for the supply to the switch are defined and documented by the operator according to DIN/BS EN 60079-11:2012, section 5.7 "simple apparatus" before installation and operation in an Ex-Zone.



Caution:

The influence of the fluid temperature on the installed switch must be considered.



5. DECLARATION OF CONFORMITY

5.1 EU Declaration of Conformity

Nº. 21-4164-	-01	LD Group
Hersteller: <i>Manufacturer</i> .	Heinrichs Messtechnik GmbH Robert-Perthel-Strasse 9 50739 Köln	
Produktbeschreibung: Product description:	Schwebekörper-Durchflussmessgerät vom Typ V3 [.] Variable Area Flow-meter Model V31	1
Hiermit erklären wir, in alleinig folgenden EU-Richtlinien, eins entspricht: We declare herewith, in sole n the following EU-directives, ind 2014/30/EU (EMC)	ge Verantwortung, dass das oben genannte Messsystem den Anforde schließlich allen bis heute veröffentlichten Änderungen bzw. Nachträg responsibility, that the product described above is conform with the pro- cluding all published changes and amendments as of today:	rungen der en ovisions of
(Nur für elektrische Sensoren) (For electrical switches only)	EU-Richame user the Elektromagnetische Verträglichkeit	
2014/34/EU (ATEX)	EU-Richtlinie über Geräte zur Bestimmungsgemäße Verwendung explosionsgefährdeten Bereichen. EU-Directive relating to electrical equipment intended for use in pe explosive atmospheres	in o <i>tentially</i>
2014/68/EU (PED)	EU-Richtlinie zur Harmonisierung der Rechtsvorschriften der Mitg über die Bereitstellung von Druckgeräten auf dem Markt <i>EU-Directive</i> on the harmonisation of the laws of the Member Stat to the making available on the market of pressure equipment	liedstaaten tes relating
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Produktbeschreibung: Schwebekörper-Durchflussmessgerät vom Typ V31 Product description: Variable Area Flowmeter Model V31 Durch diese Erklärung wird die Konformität mit den auf Seite 1 genannten Richtlinien sowie die Einhaltung olgenden Normen bestätigt (gegebenenfalls abhängig von Gerätevariante): Zonformity to the Directives referred to on Page 1 of this Declaration is assured through the application of the olowing standards (possibly dependent on version of device): Richtlinie Norm -Ref. Ausgabe Norm Beschreibung Directive Nr. Edition Standard / Bet. N°. eggebenentalls 2014/30/EU 61000-6-2 2011-06 Immunity Industrial environment x 61000-6-3 2012-11 Emission residential environment x 2014/30/EU 61000-6-3 2012-11 Emission residential environment x 2014/30/EU 61326-1 2011-07 EMC requirements x 2014/34/EU 1127-1 2019 Grundlagen und Methodik x 2014/68/EU AD 2000-Merkblätter Module H x x X: Zutreflende Norm / Applicable Standard X X X 2014/68/EU AD 2000-Merkblätter Module H x		Nº. 21	-4164-01	. 644	20		
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Nr. 21-4164-01 Produktbeschreibung: Schwebekörper-Durchflussmessgerät vom Typ V31 Product description: Variable Area Flowmeter Model V31 Gerät Zulassungen / Device certification Supplement Marking isopplement Type examination certificate Supplement Marking isopplement BVS 10 ATEX H/B 119 1 I 20 x Tech. Flie Ref. 1 EC0081-3001-X x Xutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Homesereitgestelt. Forokornity switches offered as an option in conjunction with the above-mentioned products, the Declarations of Conformity are provided by the switch manufacturer on their homepage. Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen der neuen Ausgaben entweder keinen Eir auf das Produkt haben, oder das Produkt de Anforderungen erütlt. The above-mentioned products comply with the Directive 2014/34/EU. Neue editions may have alreadyr pralaced one or more of the Standards stated in the respective Type-examination certificates. The manufacturer delares that all products mentioned in this Declaration of Conformity also comply with the requirements of the new editions do not alfect product, or the product also fulfills the requirements.	Annex X	X zur Konf Cof the Dec	ormitätserk laration of	därung <i>Conformity</i>	KOBOLD Gro
Produktbeschreibung: Schwebekörper-Durchflussmessgerät vom Typ V31 Variable Area Flowmeter Model V31 Gerät Zulassungen / Device certification Baumusterprüfbescheinigung Nachtrag Kennzeichnung Type examination certificate Supplement Marking BVS 10 ATEX H/B 119 1 II 2G Tech. File Ret. 1 EE0081-3001-X X Variables Standard X: Zutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Home bereitgestellt. For proximity switches offered as an option in conjunction with the above-mentioned products, the Declarations of Conformity are provided by the switch manufacturer on their homepage. Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen genannten Normen ersetzt haben. Der Hersteller erklärt, dass alle in dieser Konformitätserklärung erwähnt Produkte auch die Anforderunge neuen Ausgaben einhalten, da die veränderten Anforderungen erfült. The above-mentioned products comply with the Directive 2014/34/EU. New editions may have already replaced one or more of the Standards stated in the respective Type-examination certificates. The manufacturer declares that all products mentioned in this Declaration of Conformity also comply with the requirements of the new editions do not affect product, or the product also fulfills the requirements.	Nº. 21-416	4-01			
Gerät Zulassungen / Device certification Baumusterprüfbescheinigung Type examination certificate Nachtrag Supplement Kennzeichnung Marking BVS 10 ATEX H/B 119 1 II 2G II 2D X BVS 10 ATEX H/B 119 1 II 2G II 2D X Tech. File Ref. 1 EE0081-3001=X X V. Zutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Home bereitgestellt. For proximity switches offered as an option in conjunction with the above-mentioned products, the Declarations of Conformity are provided by the switch manufacturer on their homepage. Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen genannten Normen ersetzt haben. Der Hersteller erklärt, dass alle in dieser Konformitätserklärung erwähnt Produkte auch die Anforderungen euen Ausgaben einhalten, da die veränderten Anforderungen der neuen Ausgaben entweder keinen Eir auf das Produkt haben, oder das Produkt die Anforderungen effült. The above-mentioned products comply with the Directive 2014/34/EU. New editions may have already replaced one or more of the Standards stated in the respective Type-examination certificates. The manufacturer declares that all products mentioned in this Declaration of Conformity also comply with the requirements of the new editions since either the changed requirements of the new editions do not alfiect product, or the product also fulfills the requirem	<pre>Produktbeschreibung: Product description:</pre>	Schwebe Variable	körper-Durch A <i>rea Flowmet</i>	flussmessgerät vom <i>er Model V31</i>	Тур V31
Baumusterprüfbescheinigung Type examination certificate Nachtrag Supplement Kennzeichnung Marking BVS 10 ATEX H/B 119 1 II 2G II 2D X BVS 10 ATEX H/B 119 1 II 2G II 2D X Tech. File Ref. 1 EE0081-3001-X X X: Zutreffende Norm / Applicable Standard X: Zutreffende Norm / Applicable Standard	erät Zulassungen / <i>Device</i>	e certification			
BVS 10 ATEX H/B 119 1 II 2G II 2D X Tech. File Ref. 1 EE0081-3001-X X X Zutreffende Norm / Applicable Standard	Baumusterprüfbesch Type examination ce	neinigung rtificate	Nachtrag Supplement	Kennzeichnung Marking	
BVS 10 ATEX H/B 119 1 II 2G II 2D X Tech. File Ref. 1 EE0081-3001-X X X: Zutreffende Norm / Applicable Standard X: Zutreffende Norm / Applicable Standard					V31
Tech. File Ref. 1 EE0081-3001-X X X: Zutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Home bereitgestellt. For proximity switches offered as an option in conjunction with the above-mentioned products, the Declarations of Conformity are provided by the switch manufacturer on their homepage. Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen genannten Normen ersetzt haben. Der Hersteller erklärt, dass alle in dieser Konformitätserklärung erwähnt Produkte auch die Anforderunge neuen Ausgaben einhalten, da die veränderten Anforderungen erfüllt. The above-mentioned products comply with the Directive 2014/34/EU. New editions may have already replaced one or more of the Standards stated in the respective Type-examination certificates. The manufacturer declares that all products mentioned in this Declaration of Conformity also comply with the requirements of the new editions do not affect product, or the product also fulfills the requirements.	BVS 10 ATEX	K H/B 119	1	II 2G	x
X: Zutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Home bereitgestellt. For proximity switches offered as an option in conjunction with the above-mentioned products, the Declarations of Conformity are provided by the switch manufacturer on their homepage. Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen genannten Normen ersetzt haben. Der Hersteller erklärt, dass alle in dieser Konformitätserklärung erwähnt Produkte auch die Anforderunge neuen Ausgaben einhalten, da die veränderten Anforderungen der neuen Ausgaben entweder keinen Eir auf das Produkt haben, oder das Produkt die Anforderungen erfüllt. The above-mentioned products comply with the Directive 2014/34/EU. New editions may have already replaced one or more of the Standards stated in the respective Type-examination certificates. The manufacturer declares that all products mentioned in this Declaration of Conformity also comply with the requirements of the new editions do not affect product, or the product also fulfills the requirements.	Tech. File	e Ref.	1	EE0081-3001-X	X
X: Zutreffende Norm / Applicable Standard Konformitätserklärungen für die als Option verwendeten Schalter werden vom Hersteller auf deren Home bereitgestellt. <i>For proximity switches offered as an option in conjunction with the above-mentioned products, the</i> <i>Declarations of Conformity are provided by the switch manufacturer on their homepage.</i> Die oben genannten Produkte entsprechen der Richtlinie 2014/34/EU. Neue Editionen können bereits ein oder mehrere der in den jeweiligen Baumusterprüfbescheinigungen genannten Normen ersetzt haben. Der Hersteller erklärt, dass alle in dieser Konformitätserklärung erwähnt Produkte auch die Anforderunge neuen Ausgaben einhalten, da die veränderten Anforderungen der neuen Ausgaben entweder keinen Eir auf das Produkt haben, oder das Produkt die Anforderungen erfüllt. <i>The above-mentioned products comply with the Directive 2014/34/EU. New editions may have already</i> <i>replaced one or more of the Standards stated in the respective Type-examination certificates. The</i> <i>manufacturer declares that all products mentioned in this Declaration of Conformity also comply with the</i> <i>requirements of the new editions since either the changed requirements of the new editions do not affect</i> <i>product, or the product also fulfills the requirements.</i>					
	uen Ausgaben einhalten, f das Produkt haben, ode e above-mentioned prod olaced one or more of the anufacturer declares that quirements of the new ed oduct, or the product also	da die veränderte r das Produkt die ucts comply with t s Standards stateo all products ment itions since either fulfills the require	en Anforderungen Anforderungen en he Directive 2014 I in the respective ioned in this Deck the changed requ ments.	der neuen Ausgaben entv füllt. /34/EU. New editions may Type-examination certifica aration of Conformity also irrements of the new editio	veder keinen Einflu have already ates. The comply with the ns do not affect the



5.2 UKCA Declaration of Conformity

	Declaratio	on of C	Conformity		КОВ	OLD Grou
	Nº. 21-4164-	51				_
Manufac	turer:	Heinric Robert 50739 Germa	chs Messtechnik Gr -Perthel-Strasse 9 Cologne ny	nbH		
Product	description:	Variab	le Area Flow-mete	er Model V3	1	
We declare the following	herewith, in sole re g UKCA regulations	esponsibility s, including	y, that the product deso all published changes	ribed above is and amendme	conform with the pents as of today:	orovisions o
Electroma Regulatio (ECR 2016	agnetic Compatibi ns 2016 6)	lity	UK-Regulations relatin (applies to add-on elec	g to electroma trical switches	gnetic compatibility)	
Potentially Atmosphe (PEAR 20	y Explosion eres Regulations 2 16)	2016	UK-Regulations relatin potentially explosive at	g to electrical mospheres	equipment intended	d for use in
Pressure Regulatio (PESR 20 ⁻	Equipment Safety ns 2016 16)		UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 20 Annex N and	Equipment Safety ns 2016 16) X are an integral part of	f this declarati	UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 207 Annex N and Cologne, 2	Equipment Safety ns 2016 16) X are an integral part of 28th September 20:	f this declaration	UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 20) Annex N and Cologne, 2	Equipment Safety ns 2016 16) X are an integral part of 28th September 20:	this declaration	UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 20) Annex N and Cologne, 2	Equipment Safety ns 2016 16) X are an integral part of 28th September 20; 28th September 20;	this declarati	UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 20) Annex N and Cologne, 2 Joseph Bu (Explosion	Equipment Safety ns 2016 16) X are an integral part of 28th September 20: 28th September	this declaration	UK-Regulations relatin pressure equipment	g to the makin pderfeld quipment Rep	g available on the r	market of
Pressure Regulatio (PESR 20) Annex N and Cologne, 2 Joseph Bu (Explosion	Equipment Safety ns 2016 16) X are an integral part of 28th September 20: 28th September 20: wrke Protection Repres	this declaration	UK-Regulations relatin pressure equipment	g to the makin	g available on the r	market of
Pressure Regulatio (PESR 20) Annex N and Cologne, 2 Joseph Bu (Explosion	Equipment Safety ns 2016 16) X are an integral part of 28th September 202 28th September 202 wrke Protection Repres	this declaration	UK-Regulations relatin pressure equipment	g to the makin pderfeld quipment Rep Tel: Email: Web:	g available on the r g available on the r resentative) +49 (221) 49708-0 info@heinrichs.eu www.heinrichs.eu	market of



Nº. 2	21-4164-51			KOBO	LD Gr
oduct descrip	tion: Vari	able Area F	low-meter Model V31		
formity to the re wing standards	gulations referred t (possibly depender	o on Page 1 of nt on version of	this Declaration is assured through the formation the formation is assured through the formation of the second sec	e applic	cation of
Regulations	Standard / Ref. Nº. BS EN IEC-	Edition	Standard Description	V31	Add-on electrical sensors
ECR 2016	61000-6-2	2019-02	Immunity Industrial environment		X
	61000-6-3	2021-03	Emission residential environment		X
	55011	2016-05	Radio frequency disturbance		х
	61326-1	2021-06	EMC general requirements		Х
PEAR 2016	1127-1	2019-08	Basic concepts and methodology	Х	
	80079-36	2016-04	General requirements non electrical devices	X	
PESR 2016	AD 2000	-leaflets	Module H	X	
ne and address IV-SÜD Industric V SÜD Gruppe estendstraße 19 80686 München	of Conformity Asse e Service GmbH 9	<u>ssment Body (</u>	CAB)		



ČÀ	Annex X Nº. 21-4164	of the Declara	tion of (Conformity	KOBOLD Grou
Product	description:	Variable Area	Flow-met	er Model V31	
Device ce	artification:				
Type	examination cer	tificate Su	oplement	Marking	
					/31
	BVS 10 ATEX	H/B 119		II 2G	X
	Tech File	Bef.		II 2D FE0081-3001-X	X
				220001-0001-2	
For the opti homepage The above- Potentially the standar products m since either the requirer	ional proximity sw for an actual Dec mentioned produ Explosive Atmosp ds stated in the re entioned in this D the changed req ments.	vitches in conjunction w laration of Conformity. cts comply with the Equipheres Regulations 201 espective type-examina reclaration of Conformit uirements of the new e	ith the above uipment and 6. New editi tion certifica y also comp ditions do no	e-mentioned products, vis Protective Systems Inten ons may have already rep tes. The manufacturer de ly with the requirements o thatfect the product, or the	it the manufacturers ded for Use in placed one or more o clares that all f the new editions e product also fulfils
For the opti homepage The above- Potentially the standar products m since either the requirer	ional proximity sw for an actual Dec mentioned produ Explosive Atmosp ds stated in the rr entioned in this D the changed req ments.	ritches in conjunction w laration of Conformity. cts comply with the Equ oheres Regulations 201 espective type-examina reclaration of Conformit uirements of the new e	ith the above upment and 6. New editi tion certifica y also comp ditions do no	e-mentioned products, vis Protective Systems Inten ons may have already rep tes. The manufacturer de ly with the requirements o at affect the product, or the	it the manufacturers ded for Use in blaced one or more of clares that all f the new editions e product also fulfils