IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BVS 09.0044**

Certificate history:
Issue 0 (2009-08-07)

Status: **Current**

Issue No: 1

Date of Issue: 2021-04-20

Applicant: **KOBOLD Messring GmbH**
Nordring 22-24
65719 Hofheim/Ts.
Germany

Equipment: **Flow control device type PS*-**** * *** * ***

Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

Marking: **For type PS*-**** * *** * * H**
Ex ia I Ma
Ex ia IIC T3 Ga
Ex ia IIIC T135°C Da
Ex ia IIIC T150°C Db
T_a: -20 °C up to +110 °C

or

type PS*-** * *** * ***
Ex ia I Ma
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ex ia IIIC T110°C Db
T_a: -20 °C up to +70 °C

Approved for issue on behalf of the IECEx Certification Body: **Dr Franz Eickhoff**

Position: **Lead Auditor and officially recognised expert**

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

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Certificate No.: **IECEx BVS 09.0044**

Date of issue: 2021-04-20 Issue No: 1

Manufacturer: **KOBOLD Messring GmbH**
Nordring 22-24
65719 Hofheim/Ts.
Germany

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR09.0038/01

Quality Assessment Report:

DE/BVS/QAR09.0001/11

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

General product information

Paddle Flow Monitor type PS*-**** * *** * *
Instead of the *** in the complete denomination letters and numerals will be inserted which characterize modifications.

Description

The flow monitor, which is used as “Simple apparatus” in intrinsically safe circuits resp. as “accessory” in Group I intrinsically safe systems, is used for detection of fluid flow and comprises only components which do not effect intrinsic safety.

The flow monitor consists of a metal enclosure, in which a reed contact is completely encapsulated. This reed contact will be operated by a permanent magnet which is mounted on a paddle; this paddle will be moved by the flow medium.

For use of the flow monitor in areas requiring Category 1G, 1D and 2D (Zone 0, 20 and 21) -equipment, the monitor shall be mounted in a way that possible electrostatic discharge of the cable will be avoided.

SPECIFIC CONDITIONS OF USE: NO

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Equipment (continued):

Parameters

Electrical parameters for use in all Zones, except Zone 20 (EPL Da)

Maximum input voltage		U_i	AC/DC	60	V
Maximum input current		I_i		2	A
Maximum input power		P_i		40 W / 20	VA
Maximum internal capacitance		C_i		negligible	
Maximum internal inductance		L_i		negligible	
Ambient temperature range		T_a			
for type PS*-**** * *** * * H	(T3 / T150 °C)			-20 °C up to +110 °C	
for type PS*-**** * *** * *	(T4 / T110 °C)			-20 °C up to +70 °C	

Electrical parameters for use in Zone 20 (EPL Da)

Maximum input voltage		U_i	AC/DC	30	V
Maximum input current		I_i		250	mA
Maximum input power		P_i			
for type PS*-**** * *** * * H				500	mW
for type PS*-**** * *** * *				650	mW
Maximum internal capacitance		C_i		negligible	
Maximum internal inductance		L_i		negligible	
Ambient temperature range		T_a			
for type PS*-**** * *** * * H	(T135 °C)			-20 °C up to +110 °C	
for type PS*-**** * *** * *	(T135 °C)			-20 °C up to +70 °C	

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The equipment has been assessed in accordance with current standard versions.
- Reduced parameters for Zone 20 (EPL Da)
- The marking was slightly changed
- New type label material is used
- The description was slightly changed