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 13.0035X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2016-11-04) Issue 0 (2013-03-01)
Date of Issue:	2021-08-17		
Applicant:	**KOBOLD Messring GmbH** Nordring 22-24 65719 Hofheim/Ts. **Germany**		
Equipment:	**Flow measuring system type DOG-42********* and DOG-62***********		
Optional accessory:			
Type of Protection:	**Intrinsic Safety "i"**		
Marking:	[Ex ia Ga] IIC for type transmitter DOG-42********* and DOG-62********* Ex ia IIC T4 Ga for type sensor DOG-42********* and DOG-62*********		

Approved for issue on behalf of the IECEx Certification Body: **Ralf Leiendecker**

Position: **Deputy Head of Certification Body**

Signature: (for printed version)

Date: 17.08.2021

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 13.0035X** Page 2 of 4

Date of issue: 2021-08-17 Issue No: 2

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/ExTR13.0034/02

Quality Assessment Report:

DE/BVS/QAR09.0001/11

IECEx Certificate of Conformity

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

General product information:

The flow measuring system is intended for flow measuring of gaseous media.
The flow measuring system consists of a type transmitter DOG-42********* with a type sensor DOG-42********* or of a type transmitter DOG-62********* with a type sensor DOG-62********.
The transmitter have to be mounted outside the hazardous area; both apparatus can be connected via an up to 100 m long cable.

Type Code

DOG	-	a	2	**	*	**	*	b	*	*

All characters "*" are not relevant for explosion protection.

a State of aggregation of the medium
- 4 = for gases
- 6 = for damp gases

b Electronics
- A = Frequency output, 230 VAC
- D = Frequency output, 110 VAC
- F = Frequency output, 24 VAC
- R = Frequency output, 24 VDC
- H = Totaliser, pulse output, analogue output, 230 VAC
- I = Totaliser, pulse output, analogue output, 110 VAC
- L = Totaliser, pulse output, analogue output, 24 VDC
- N = Flow computer, pulse output, analogue output, 230 VAC
- P = Flow computer, pulse output, analogue output, 110 VAC

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:
The sensor has to be mounted in areas where ignition hazard due to impact or friction will be excluded.

The sensor has to be mounted in areas where electrostatic charging / discharging hazard will be excluded.

The connecting cable has to be in a fixed installation if the ambient temperature is below -5 °C.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Additional variant type DOG-62********* is due to a special sensor especially for use with humid gases. The transmitter remains unchanged to type DOG-42********* in housing and electronics design.
- The type code is extended
- Update of documentation.
- Testing is no longer carried out according to the IEC 60079-26 standard.

Annex:

BVS_13_0035X_Kobold_Annex_issue_2.pdf

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 13.0035X issue No: 2**
Annex

Parameters

1	Type transmitter DOG-42******** and DOG-62********				
1.1	Mains circuit (terminals X100:2 and X100:4)				
	Nominal voltage		AC	230	V
		or	AC	110	V
		or	AC	24	V
	max. voltage	U_m	AC	253	V
1.2	Power supply (sensor) circuit (terminals X201:1 and X201:3), level of protection Ex ia IIC				
	Voltage	U_o	DC	8.6	V
	Current	I_o		925	mA
	Power	P_o		1.17	W
	Trapezoid output characteristic				
1.3	Floating opto coupler output circuit (terminals X200:3 and X200:4), level of protection Ex ia IIC				
	Voltage	U_i	DC	30	V
	Effective internal capacitance	C_i		negligible	
	Effective internal	L_i		negligible	
1.4	Ambient temperature range	T_a		-20 °C up to +60 °C	
2	Type sensor DOG-42******** and DOG-62********				
	Ambient temperature range	T_a		-20 °C up to +60 °C	

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx BVS 13.0035X issue No.:1	Certificate history: Issue No. 1 (2016-11-4) Issue No. 0 (2013-3-1)
Status:	**Current**	
Date of Issue:	**2016-11-04**	Page 1 of 4
Applicant:	**KOBOLD Messring GmbH** Nordring 22-24 65719 Hofheim/Ts. **Germany**	
Equipment: *Optional accessory:*	**Flow measuring system type DOG-4**	
Type of Protection:	**Equipment protection by intrinsic safety "i", Equipment with Equipment Protection Level (EPL) Ga**	
Marking:	[Ex ia Ga] IIC for type transmitter DOG-4 Ex ia IIC T4 Ga for type sensor DOG-4	
Approved for issue on behalf of the IECEx Certification Body:	J. Koch	
Position:	Head of Certification Body	
Signature: *(for printed version)*		
Date:	4.11.16	

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 the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
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IECEx Certificate of Conformity

Certificate No.: IECEx BVS 13.0035X

Date of Issue: **2016-11-04** Issue No.: **1**

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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition: 3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical 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/ExTR13.0034/01

Quality Assessment Report:

DE/BVS/QAR09.0001/07

IECEx Certificate of Conformity

Certificate No.: IECEx BVS 13.0035X

Date of Issue: **2016-11-04** Issue No.: **1**

Schedule

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

General product information:

The flow measuring system is intended for flow measuring of gaseous media.
The flow system consists of a transmitter which has to be mounted outside the hazardous area and a flow sensor; both apparatus can be connected via an up to 100 m long cable.

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

The sensor has to be mounted in areas where ignition hazard due to impact or friction will be excluded.

The sensor has to be mounted in areas where electrostatic charging/discharging hazard will be excluded.

The connecting cable has to be in a fixed installation if the ambient temperature is below -5 °C.

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Certificate No.: IECEx BVS 13.0035X

Date of Issue: **2016-11-04** Issue No.: **1**

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Two variants have been added: variants with nominal mains voltage of AC 110 V and with nominal mains voltage of AC 24 V (marking of mains voltage on the label).

Annex: BVS_13_0035X_Kobold_Annex_issue_1.pdf

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 13.0035 X issue No.: 1**
Annex

Parameters

1	Type transmitter DOG-4				
1.1	Mains circuit (terminals X100:2 and X100:4)				
	Nominal voltage		AC	230	V
		or	AC	110	V
		or	AC	24	V
	max. voltage	U_m	AC	253	V
1.2	Power supply (sensor) circuit (terminals X201:1 and X201:3), level of protection Ex ia IIC				
	Voltage	U_o	DC	8.6	V
	Current	I_o		925	mA
	Power	P_o		1.17	W
	Trapezoid output characteristic				
1.3	Floating opto coupler output circuit (terminals X200:3 and X200:4), level of protection Ex ia IIC				
	Voltage	U_i	DC	30	V
	Effective internal capacitance	C_i		negligible	
	Effective internal	L_i		negligible	
1.4	Ambient temperature range	T_a		-20 °C up to +60 °C	
2	Type sensor DOG-4				
	Ambient temperature range	T_a		-20 °C up to +60 °C	