



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: Page 1 of 4

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

Electrical Apparatus: **Flow measuring system type DOG-4**
Optional accessory:

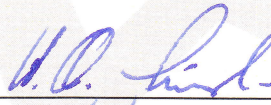
Type of Protection: **Equipment protection by intrinsic safety "i"; Equipment with equipment protection level (EPL) Ga**

Marking: **[Ex ia Ga] IIC for reader type DOG-4A**
Ex ia IIC T4 Ga for sensor type DOG-4S

Approved for issue on behalf of the IECEx Certification Body: **H.-Ch. Simanski**

Position: **Head of Certification Body**

Signature:
(for printed version)



1/3/13

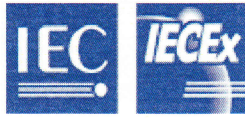
Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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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 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

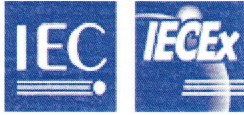
*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

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/ExTR13.0034/00](#)

Quality Assessment Report:
[DE/BVS/QAR09.0001/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Parameters

1	Reader type DOG-4A			
1.1	Mains circuit (terminals X100:2 and X100:4)			
	Nominal voltage	AC 230		V
	Max. voltage	Um AC 253		V
1.2	Power supply (sensor) circuit (terminals X201:1 and X201:3), level of protection Ex ia IIC			
	Voltage	Uo DC 8.6		V
	Current	Io 925		mA
	Power	Po 1.17		mA
	Trapezoid output characteristic			
1.3	Floating opto coupler output circuit (terminals X200:3 and X200:4), level of protection Ex ia IIC			
	Voltage	Ui DC 30		V
	Effective internal capacitance	Ci negligible		
	Effective internal inductance	Li negligible		
1.4	Ambient temperature range	Ta -20 °C up to +60 °C		
2	Sensor type DOG-4S			
	Ambient temperature range	Ta -20 °C up to +60 °C		

CONDITIONS OF CERTIFICATION: 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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EQUIPMENT(continued):

Subject and type

Flow measuring system type DOG-4, consisting of a reader type DOG-4A and a sensor type DOG-4S

Description

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