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.:	IECEx BVS 12.0061X issue No.:0	Certificate history:
Status:	**Current**	
Date of Issue:	**2012-09-11**	Page 1 of 4

Applicant: **Heinrichs Messtechnik GmbH**
Robert-Perthel-Straße 9
50739 Cologne
Germany

Electrical Apparatus: **Electronic module for variable area flowmeter type KDSE**
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

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

Position: Head of Certification Body

Signature:
(for printed version)

Date: 11/9/2012

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
DEKRA EXAM GmbH

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Date of Issue: **2012-09-11** Issue No.: **0**

Manufacturer: **Heinrichs Messtechnik GmbH**
Robert-Perthel-Straße 9
50739 Cologne
Germany

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 : 2011-06 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR12.0062/00

Quality Assessment Report:

DE/BVS/QAR11.0001/01

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Schedule

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

Description

The electronic module is a transmitter with integrated magneto electric measuring element for measurement of floater's actual position or transmission of actual pointer position into an electrical signal.

The electronic module has to be fastened inside an enclosure with connector with a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db). This enclosure and the connector should by sufficient for the use (EPL).

Subject and Type

See Annex

Parameters

See Annex

CONDITIONS OF CERTIFICATION: YES as shown below:

1 The electronic module has to be fastened inside an enclosure; this enclosure shall by sufficient for that use and shall have a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db).

2 The used connector shall by sufficient for the use (EPL) and shall have a degree of protection of min. IP20 (EPL Gb) resp. IP54 (EPL Db).

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EQUIPMENT(continued):

Parameters:

Voltage	Ui	DC	30 V
Current	Ii	150	mA
Effective internal inductance	Li	0,24	mH
Effective internal capacitance	Ci	15	nF

Power Pi in acc. with the following table:

Use in	EPL Gb	EPL Db	
Ambient temperature range	-40 °C up to +70 °C	-40 °C up to +40 °C	-40 °C up to +70 °C
Power Pi	1 W	750 mW	650 mW

Max. surface temperature for use in EPL Db 135 °C