



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 13.0004 issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: 2013-01-08 Page 1 of 3

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

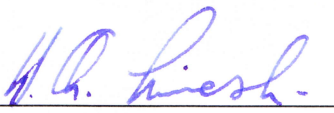
Electrical Apparatus: **Vibrating fork type NWS-***2E* ******
Optional accessory:

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

Marking: Ex ia IIC T6 Ga

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

Position: Head of Certification Body

Signature:
(for printed version) 

Date: 8/1/2013

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/ExTR13.0003/00](#)

Quality Assessment Report:

[DE/BVS/QAR09.0001/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type
see Annex

Parameters
see Annex

CONDITIONS OF CERTIFICATION: NO



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Annex

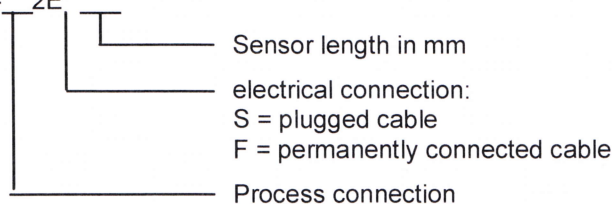
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Subject and Type

Vibrating fork type NWS-***2E* ****

Instead of the * in the complete denomination numerals and figures will be inserted which characterize different variations:

Type NWS-***2E* ****



The vibrating fork is used for measurement of liquid levels.

The electrical components of the sensor are encapsulated in a metallic enclosure.

The electrical connection is by a plugged cable (type NWS-***2ES ****) or a permanently connected cable (type NWS-***2EF ****).

Parameters

Maximum input voltage	Ui	DC	20	V
Maximum input current	Ii		100	mA
Maximum input power	Pi		1	W
Effective internal capacitance	Ci		8	nF
Effective internal inductance	Li			negligible

For the connected cable, the following values have to be additionally regarded:

Capacitance per unit length	0.14	nF/m
Inductance per unit length	0.65	µH/m

Ambient temperature range	Ta	-40 °C up to +70 °C
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The possible medium temperature and the allocation of the temperature class are shown in the following table:

Temperature class	T6	T5	T4	T3
Max. medium temperature	75 °C	90 °C	125 °C	150 °C