



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 DEK 15.0046X Issue No: 0 Certificate history:
Issue No. 0 (2017-04-21)

Status: **Current** Page 1 of 4

Date of Issue: **2017-04-21**

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

Equipment: **Oval Gear Flowmeters, types DON-.....E..**
Optional accessory:

Type of Protection: **Ex db IIC, Ex db I Mb**

Marking: Ex db IIC T4/T6 Gb, Ex db I Mb

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

T. Pijpker

Position:

Certification Manager

Signature:
(for printed version)

Date:

2017-04-21

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 Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





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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:

*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:

[NL/DEK/ExTR17.0002/00](#)

Quality Assessment Report:

[DE/BVS/QAR09.0001/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The oval gear flowmeter Type DON-....E.. are positive displacement flowmeters where the passage of liquid causes two oval gears to rotate within a measuring chamber and with each rotation a fixed volume of liquid passes through the meter. Magnets embedded within the gears initiate a pulse train output. The pulse output can be wired directly to process control and monitoring equipment or can be used as an input to instruments supplied with or fitted directly onto the meter.

The flowmeters can be made from aluminium or stainless steel for Group II and are only stainless steel for Group I.

The -RE option (reed switch) has no additional parts and is suitable to be used as "simple apparatus" in Ex i applications.

Ambient temperature range:

-20 °C to +70 °C for Ex db IIC T6 Gb,

-20 °C to +120 °C for Ex db IIC T4 Gb,

-20 °C to +150 °C for Ex db I Mb.

The minimum ambient temperature is -15°C for the option IP67.

Electrical data: $U_{max} = 28 \text{ Vdc}$, $I_{max} = 100 \text{ mA}$.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Contact the manufacturer for information on the dimensions of the flameproof joints



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Additional information:

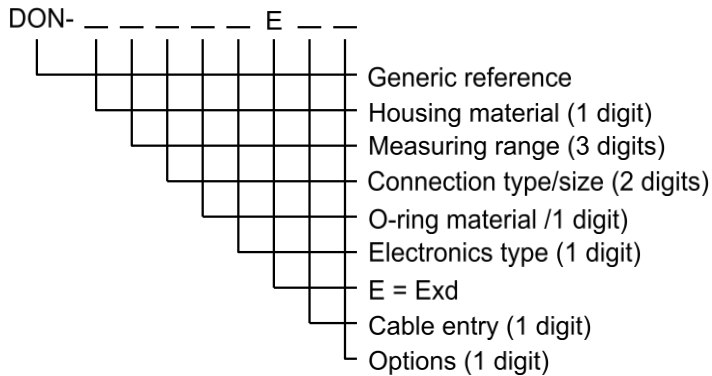
See 218403500-Annex

Annex:

[218403500-Annex .pdf](#)

Annex to IECEx Test Report NL/DEK/ExTR17.0002/00
Annex to Certificate of Conformity IECEx DEK 15.0046 X, issue no. 0

The oval gear flowmeter type DON-...E...has the following options see table below



Housing material: **1** Aluminium
2/8 Stainless Steel

Electronic types: **LE** 4-20mA "loop powered" analogue output
RE Reed switch pulse output
HE Hall sensor and reed switch pulse output
BE Hall sensor (bipolar) pulse output
GE Hall sensor (high resolution X4) pulse output
DE Quad hall sensor pulse output
KE Hall sensor (high resolution X2) pulse output

Cable entry options: **M** M20
N ½" NPT