

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 17ATEX0004X** Issue Number: **3**

(4) Product: **Oval Gear Flowmeter Type DON-* * * * *E* ***

(5) Manufacturer: **KOBOLD Messring GmbH**

(6) Address: **Nordring 22-24, 65719 Hofheim /Ts., Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR17.0002/03.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-1 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex db IIC T6...T4 Gb Enclosure of aluminium or stainless steel
I M 2 Ex db I Mb Enclosure of stainless steel

Date of certification: 24 February 2025

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

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Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 17ATEX0004X** Issue No. 3

(15) **Description**

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.

Ambient and process temperature range:

Marking	Ambient temperature	Process temperature
Ex db IIC T6 Gb	-20 °C to +70 °C	-20 °C to +70 °C
Ex db IIC T4 Gb	-20 °C to +80 °C	-20 °C to +120 °C
Ex db I Mb	-20 °C to +80 °C	-20 °C to +140 °C

Electrical data: Umax : 28 Vdc, Imax : 100 mA

Type designation

Type: **DON-** * ** * ** * * **E** * *
ID: I II III IV V VI VII VIII IX X

ID	Explanation	Value	Explanation
I	General	DON	Generic reference
II	Housing material (1 digit):	1 or 3 ¹⁾ 2 or 4 ¹⁾ 8 or 9 ¹⁾ H or S ¹⁾	Aluminium Stainless Steel Stainless Steel Stainless steel high pressure version only with measuring range 05, 10, 15 and 20
III	Measuring range (2 digits)	04, 05, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60	Not relevant for Explosion Safety
IV	Unit of measuring range (1 digit)	H G	Litre Gallon Not relevant for Explosion Safety
V	Connection type/size (2 digits)	**	Not relevant for Explosion Safety
VI	O-ring material (1 digit)	*	For use in the process side Not relevant for Explosion Safety
VII	Electronic types (1 digit)	L R H B G D K	4-20mA "loop powered" analogue output Reed switch pulse output Hall sensor and reed switch pulse output Hall sensor (bipolar) pulse output Hall sensor (high resolution X4) pulse output Quad hall sensor pulse output Hall sensor (high resolution X2) pulse output
VIII	General	E	Ex d
IX	Cable entry options (1 digit)	M N	M20 1/2" NPT
X	Options (1 digit)	*	Not relevant for Explosion Safety

Note ¹⁾ Values 3, 4, 9 and S are used for high viscosity variants.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 17ATEX0004X** Issue No. **3**

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR17.0002/03.

(17) **Specific conditions of use**

- Contact the manufacturer for information on the dimensions of the flameproof joints.
- Ambient temperature ranges shown in the certificate applies.
- The screws used to assemble the cover to the Ex d housing shall be class A2-70 or better.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR17.0002/03.