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 17ATEX0004 X** Issue Number: **0**

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

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

(6) Address: **Nordring 22-24, 65719 Hofheim, 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/ExTR17.0002/00.

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

EN 60079-0 : 2012 + A11 : 2013 **EN 60079-1 : 2014**

(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 T4/T6 Gb
I M 2 Ex db I Mb

Date of certification: 21 April 2017

DEKRA Certification B.V.

T. Pijpker
Certification Manager

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 17ATEX0004 X** Issue No. **0**

(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.

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

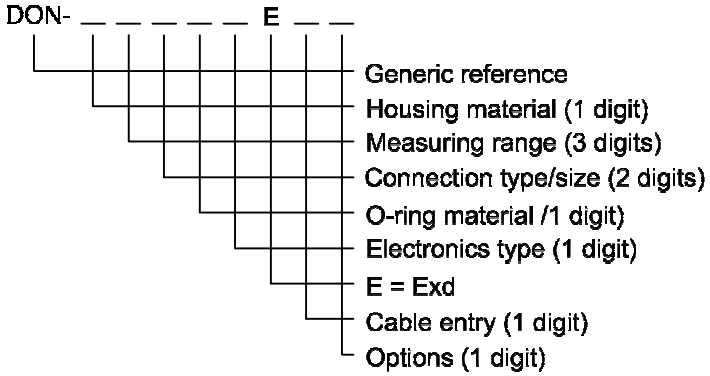
Ambient temperature range:
-20 °C to +70 °C for Ex db IIC T6 Gb,
-20 °C to +120 °C for Ex db IIC T4 Gb,
-20 °C to +150 °C for Ex db I Mb.

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

Electrical data

Umax : 28 Vdc, Imax : 100 mA

The oval gear flowmeter type DON-…..E.. has the following options:



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

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 17ATEX0004 X** Issue No. **0**

Installation instructions

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

(16) **Report Number**

No. NL/DEK/ExTR17.0002/00.

(17) **Specific condition of use**

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

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR17.0002/00.

(20) **Certificate history**

Issue 0 - project no. 218403500 initial certificate