

Translation

EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 13 ATEX E 020 X** Issue: **01**

Equipment: **Flow measuring system type DOG-42***** and DOG-62*******

Manufacturer: **KOBOLD Messring GmbH**

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

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 the confidential Report No. BVS PP 13.2048 EU.

This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 13 ATEX E-020 X including supplements 1 to 2.

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

EN IEC 60079-0:2018

General requirements

EN 60079-11:2012

Intrinsic Safety "i"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following.

 **II (1)G [Ex ia Ga] IIC** for transmitter type **DOG-42***** and DOG-62*******
II 1G Ex ia IIC T4 Ga for sensor type **DOG-42***** and DOG-62*******

DEKRA Testing and Certification GmbH
Bochum, 2022-08-01

Signed: Dr. Rolf Krökel

Managing Director

13 **Appendix**

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15 **Product description**

15.1 **Subject and type**

Flow measuring device type DOG-42*****,
consisting of one type transmitter DOG-42***** with one type sensor DOG-42*****,
and
Flow measuring device type DOG-62*****,
consisting of one type of transmitter DOG-62***** with one type of sensor DOG-62*****.

15.2 **Description**

The flow measuring system is intended for flow measuring of gaseous media.

The flow measuring system consists of a type transmitter DOG-42***** with a type sensor DOG-42***** or of a type transmitter DOG-62***** with a type sensor DOG-62*****.

The transmitter has to be mounted outside the hazardous area; both apparatuses can be connected via an up to 100 m long cable.

Type Code

type	DOG	-	*	2	**	*	**	*	*	*	*	*
sign	1-3	4	5	6	7-8	9	10-11	12	13	14	15	

sign 1-3 type

DOG

sign 5 state of aggregation of the medium

4 = for gases

6 = for damp gases

sign 6 material

2 = stainless steel 1.4404

sign 7-8 measurement range

not Ex relevant

sign 9 connection type pressure stage

not Ex relevant

sign 10-11 nominal size

not Ex relevant

sign 12 ball valve

not Ex relevant

sign 13 electronics

B = Frequency output, 230 VAC

A = Like "B", for ATEX / IECEx

C = Frequency output, 110 VAC

D = Like "C", for ATEX / IECEx

E = Frequency output, 24VAC

F = Like "E", for ATEX / IECEx

G = Totalizer, pulse output, analogue output, 230 VAC

K = Totalizer, pulse output, analogue output, 110 VAC for ATEX / IECEx

M = Flow computer, pulse output, analogue output, 230 VAC

O = Flow computer, pulse output, analogue output, 110 VAC

Y = Special version

sign 14 length of connecting cable

not Ex relevant

sign 15 options

empty = without

Reason for this issue

- Changes in the type code - options R, H, I, L, N and P have been omitted

15.3 Parameters (unchanged)

15.3.1 Type transmitter DOG-42***** and DOG-62*****

15.3.1.1 Mains circuit (terminals X100:2 and X100:4)

Nominal voltage

	AC	230	V
or	AC	110	V
or	AC	24	V
U _m	AC	253	V

Max. voltage

15.3.1.2 Power supply (sensor) circuit (terminals X201:1 and X201:3), level of protection Ex ia IIC

Voltage

U_o DC 8.6 V

Current

I_o 925 mA

Power

P_o 1.17 W

Trapezoid output characteristic

15.3.1.3 Floating opto coupler output circuit (terminals X200:3 and X200:4), level of protection Ex ia IIC

Voltage

U_i DC 30 V

Effective internal capacitance

C_i negligible

Effective internal inductance

L_i negligible

15.3.1.4 Ambient temperature range

T_a -20 °C up to +60 °C

15.3.2 Type sensor DOG-42***** and DOG-62*****

Ambient temperature range

T_a -20 °C up to +60 °C

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17 Specific Conditions of Use

The sensor has to be mounted in areas where ignition hazard due to impact or friction will be excluded.

The sensor has to be mounted in areas where electrostatic charging / discharging hazard will be excluded.

The connecting cable has to be in a fixed installation if the ambient temperature is below -5 °C.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2022-08-02
BVS-AIh/MGR A20220429

A blue ink signature of the Managing Director is written over a horizontal line.

Managing Director