Translation

(1) # EU-Type Examination Certificate

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

(3) **Certificate Number** **TÜV 03 ATEX 2269** **Issue:** 00

(4) for the product: Signal conditioning instrument type VEGAMET 624, VEGAMET 625 and VEGASCAN 693

(5) of the manufacturer: **VEGA Grieshaber KG**

(6) Address: Am Hohenstein 113, 77761 Schiltach, Germany

Order number: 8003032445
Date of issue: See date of signature

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 ATEX Assessment Report No. 22 203 296649.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018/AC:2020-02 **EN 60079-11:2012**

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 for 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 equipment. These are not covered by this certificate.

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

See "Type code and Marking"

TÜV NORD CERT GmbH, Am TÜV 1, 45307 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The deputy head of the notified body

TÜVNORD

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(13) **S C H E D U L E**

(14) **EU-Type Examination Certificate No. TÜV 03 ATEX 2269 Issue 00**

(15) **Description of product:**
The signal conditioning instruments type VEGAMET 624, VEGAMET 625 and VEGASCAN 693 are used for the intrinsically safe supply of two-wire sensors and for the safe galvanic separation of the intrinsically safe circuit from the non-intrinsically safe circuits.
The measuring values are converted into standardised outlet signals. The device consists of an electronic casing and a connection socket.

Type code and Marking:

VEGAMET 624 VEGAMET 625 VEGASCAN 693	I (M1) [Ex ia Ma] I or II (1) G [Ex ia Ga] IIC or II (1) D [Ex ia Da] IIIC

Electrical data:

Supply voltage (Connections KI17 and KI18)

For connection to non-intrinsically safe circuits with following maximum values:

U = 24 ... 65 V d. c. (-15%...+10%)
U = 24… 230 V a.c. (-15%...+10%)
U_m = 253 V a.c. / 125 V d.c.

Signal circuit (Connections KI1 and KI2)

In type of protection Intrinsic Safety Ex ia I/IIC/IIB(IIIC) with following maximum values:

U_o = 23.9 V
I_o = 108 mA
P_o = 645 mW
Characteristic line: linear

Effective internal capacitance C_i Negligibly small
Effective internal inductance L_i Negligibly small

The maximum permissible values for the external inductance L_o and the external capacitance C_o can be taken from the following tables:

Ex ia I	L_o [mH]	63	10	0.5	0.2	0.1
	C_o [µF]	1.8	2.6	3.4	4.3	4.7

Ex ia IIC	L_o [mH]	1.8	1	0.5	0.2	0.1
	C_o [µF]	0.051	0.068	0.088	0.12	0.126

Ex ia IIB (IIIC)	L_o [mH]	18	1	0.5	0.2	--
	C_o [µF]	0.58	0.65	0.77	0.94	--

Schedule to EU-Type Examination Certificate No. TÜV 03 ATEX 2269 Issue 00

Relay circuits (Relay output 1: connections KI20, KI21 and KI22 Relay output 2: connections KI23, KI24 and KI25 Relay output 3: connections KI26, KI27 and KI28 Interference signal relay output 4: connections KI6, KI7 and KI8)	For connection to non-intrinsically safe circuits with following maximum values per relay: a. c. current: 253 V; 2 A; 125 VA d. c. current: 60 V; 1 A; 54 W
Current output (Current output 1: Connections KI11, KI12 Current output 2: Connections KI13, KI14 Current output 3: Connections KI15, KI16)	For connection to non-intrinsically safe circuits with following maximum values: 0/4 ... 20 mA U_m = 253 V a.c.
Digital outputs	
RS232 connection (Bushing at the casing bottom part) or Ethernet-connection (Bushing at the casing bottom part)	For connection to a RS232 interface U_m = 50 V For connection to an Ethernet interface U_m = 50 V
I²C bus connection (Bushing on the front plate)	For connection of the VEGACONNECT3 according to type examination certificate PTB 01 ATEX 2007 X

The intrinsically safe signal circuit is safe galvanically separated from the non-intrinsically safe circuits up to a peak value of the voltage of 375 V.

Thermal data:
Permissible ambient temperature range during operation: -20 °C ≤ Ta ≤ +60 °C

(16) Drawings and documents are listed in the ATEX Assessment Report No. 22 203 296649

(17) **Specific Conditions for Use:**
None.

(18) **Essential Health and Safety Requirements:**
No additional ones.

- End of EU-Type Examination Certificate -