

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 16 ATEX 179411 **issue:** 00
- (4) for the product: Conductive signal conditioning instrument type
VEGATOR 131.AC/O/U*****
VEGATOR 132.AC/O/U*****
- (5) of the manufacturer: VEGA Grieshaber KG
- (6) Address: Am Hohenstein 113
77761 Schiltach
Germany
- Order number: 8000459284
- Date of issue: 2016-06-13

- (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. 16 203 179411.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012 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:

 II (1) G [Ex ia Ga] IIC, II (1) D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 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 head of the notified body



Schwedt

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 16 ATEX 179411 issue 00**

(15) Description of product

The conductive signal conditioning instruments type

VEGATOR 131. AC/O/U*****

VEGATOR 132. AC/O/U*****

are used for the supply of passive, intrinsically safe conductive measuring EL type sensors for e. g. level point detection and pump control and the safe galvanic separation of the intrinsically safe circuits from all non-intrinsically safe circuits.

The permissible ambient temperature range is -20 °C ... +60 °C.

Electrical data

Supply

U = 24 ... 230 V a. c. (-15%...+10%)

Terminals 16/17)

U = 24 ... 65 V d. c.(-15%...+10%)

U_m = 253 V a. c.

Signal circuits

in type of protection „Intrinsic Safety“ Ex ia IIC, IIB, I
maximum cumulative values for both circuits:

(Terminals 1/2/3, 4/5)

U_o = 12.6 V

I_o = 7.7 mA

P_o = 24.3 mW

characteristic line: linear

Ex ia	IIC	IIB	I
max. permissible ext. inductance	1 mH	5 mH	10 mH
max. permissible ext. capacitance	0.730 µF	2.7 µF	4.3 µF

The maximum values of the table are also allowed to be used up to the permissible limits as concentrated capacitances and as concentrated inductances.

The values for IIC and IIB are also permissible for explosive dust atmospheres.

Relay outputs

maximum values:

(Terminals 10/11/12, 13/14/15)

253 V a. c., 3A

50 V d. c., 1A

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.

(16) Drawings and documents are listed in the ATEX Assessment Report No. 16 203 179411

(17) Specific Conditions for Use

none

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -

