



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

- (2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number:

PTB 14 ATEX 2028 X

Issue: 1

- (4) Product: Digital indicating instrument VEGADIS 176 Ex, type DIS176.ACSI
- (5) Manufacturer: VEGA Grieshaber KG
- (6) Address: Am Hohenstein 113, 77761 Schiltach, Germany
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 Test Report PTB Ex 24-22038.

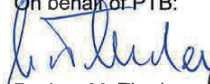
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018** **EN 60079-11:2012**
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified product 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.
- (12) The marking of the product shall include the following:

 **II 2 G Ex ib IIC T6 Gb**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, March 14, 2024

On behalf of PTB:


Dr.-Ing. M. Thedens
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 14 ATEX 2028 X, Issue: 1**

(15) Description of Product

The indicator VEGADIS 176 Ex type DIS176.ACSI is used to measure and display currents. Operation takes place within 4...20 mA measuring current loops. It is installed in a control panel.

The indicator can be used within intrinsically safe circuits of Level of Protection ia without affecting its Level of Protection.

The equipment is installed inside the hazardous area.

The permissible ambient temperature range is -40 °C ... 60 °C.

Electrical data

Supply circuit Type of protection Intrinsic Safety Ex ib IIC
(terminals +/- resp. +/LED, auxiliary terminals Π/-)

Only for connection to a certified intrinsically safe circuit

Maximum values:

$U_i = 30 \text{ V DC}$

$I_i = 200 \text{ mA}$

$P_i = 900 \text{ mW}$

$L_i = 35.1 \mu\text{H}$

C_i negligibly small

Changes with respect to previous editions:

- Adaption to the current state of standards
- Revision of the specific conditions of use

(16) Test Report PTB Ex 24-22038

(17) Specific conditions of use

The indicator VEGADIS 176 Ex type DIS176.ACSI must be set up in such a way that, even in rare cases, the generation of sparks as a result of impact or friction processes between metal/steel and the housing is excluded.

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 14 ATEX 2028 X, Issue: 1

(18) Essential health and safety requirements

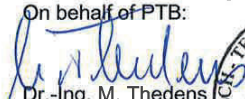
Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, March 14, 2024

On behalf of PTB:


Dr.-Ing. M. Thedens
Direktor und Professor



