



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 20ATEX9075X** Issue: **0**

4 Equipment: **VEGAPOINT 21**  
**VEGAPOINT 31**

5 Applicant: **VEGA Grieshaber KG**

6 Address: Am Hohenstein 113  
77761 Schiltach  
Germany

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

Certification code plastic version:



1/2D

Ex ta/tb IIIC T<sub>200</sub>130°C/T100°C Da/Db



2D

Ex tb IIIC T120°C/T100°C Db

Certification code stainless steel version:



1/2D

Ex ta/tb IIIC T<sub>200</sub>130 °C/T110°C Da/Db



2D

Ex tb IIIC T120°C/T110°C Db

Project Number 80041972

Signed: JA May

Title: Director of Operations

**CSA Group Netherlands B.V.**  
Utrechtseweg 310, Building B42,  
6812AR, Netherlands





## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

CSANe 20ATEX9075X

Issue 0

#### 13 DESCRIPTION OF EQUIPMENT

The level switch series VEGAPOINT 21 and VEGAPOINT 31 are for use in explosive dust atmospheres in type of protection "ta/tb", when installed in a suitable barrier between Zone 20 and 21 and in type of protection "tb". The sensor tip would be installed via the thread of the stainless-steel enclosure in Zone 20 or Zone 21 and the other part of the equipment would be in Zone 21.

They are used for detection of a product surface in contact with the sensor by means of frequency deviation method. The construction of VEGAPOINT 21 and 31 is identical. The sensors have a different software function.

There are two different versions available: The "plastic version" and the stainless-steel version".

The enclosure of the plastic version is made of stainless steel with the exception of the non-metallic cover part, which contains the protective vent and the socket. This part is protected by a non-metallic protective cover. In addition, also the cap of the probe, which is in the process, is made of a non-metallic material.

The stainless-steel version is completely made of stainless steel with the exception of the cap of the probe and the compound of the socket. In addition, the stainless-steel version has no protective cover, which is just optional. The housing and connection part (cover) are welded together.

The VEGAPOINT 21 and VEGAPOINT 31 are suitable for the following maximum ambient temperatures in relation to process temperatures. The process temperature range is -40 °C to +115 °C.

#### **Plastic Version:**

Process temperature	Maximum allowed ambient temperature
-40°C to 90°C	70°C
≤ 95°C	67°C
≤ 100°C	63°C
≤ 105°C	58°C
≤ 110°C	54°C
≤ 115°C	50°C

#### **Stainless steel version:**

Process temperature	Maximum allowed ambient temperature
-40 °C to 110 °C	70 °C
≤ 115 °C	68 °C

#### **Assignment of maximum surface temperature**

The equipment is marked with two maximum surface temperatures divided by a "/". The temperature before the "/" indicates the temperature applicable to the sensor tip and the temperature behind the "/" indicates the temperature of the enclosure beyond the thread as per table below.

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Issue 0

Version	Certification Code	Maximum surface temperature – Sensor tip	Maximum surface temperature – Enclosure (beyond the thread)
Plastic Version	Ex ta/tb	130°C	100°C
	Ex tb	120°C	100°C
Stainless steel version	Ex ta/tb	130°C	110°C
	Ex tb	120°C	110°C

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	13 October 2020	R80040597A	The release of the prime certificate.

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The equipment incorporates different ambient and process temperature ranges, follow the instruction manual regarding temperature limitations.
- 15.2 If the socket is not connected to a plug it shall be protected from environmental influences.
- 15.3 The sensor tip of the equipment shall be protected from UV light. The M12 socket of the stainless-steel version shall be protected from UV light.
- 15.4 Follow the instruction manual to avoid electrostatic charge of non-metallic enclosure materials.
- 15.5 The equipment shall be permanently connected to earth via the process connection.
- 15.6 The equipment was tested to the low risk of mechanical danger, special advises are given in the instruction manual.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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