1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 20ATEX9075X** Issue: **2**

4 Equipment: **VEGAPOINT 21, VEGAPOINT 23 & 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:

II 1/2D
Ex ta/tb IIIC T_{200}130°C/T100°C Da/Db

II 2D
Ex tb IIIC T120°C/T100°C Db

Certification code stainless steel version:

II 1/2D
Ex ta/tb IIIC T_{200}130 °C/T110°C Da/Db

II 2D
Ex tb IIIC T120°C/T110°C Db

Signed: M Halliwell

Title: Director of Operations

Project Number 80133464

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
Issue 2

13 **DESCRIPTION OF EQUIPMENT**

The level switch series VEGAPOINT 21, VEGAPOINT 23 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. VEGAPOINT 23 has the difference to the other two models that the sensor tip is extended to a length between 64 mm up to 1,000 mm.

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 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, VEGAPOINT 23 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. The equipment has been separately tested against the requirements of EN 60529 and it meets IP6X, IPX6, IPX8, IPX9.

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 senor tip and the temperature behind the "/" indicates the temperature of the enclosure beyond the thread as per table below.

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
Issue 2

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

Variation 1 - This variation introduced the following changes:

i. Replacement of the plastic material of the connection part, introduction of an alternative O-Ring material, new design and material of circlip and introduction of an alternative new protective cover material.
ii. Introduction of model VEGAPOINT 23 to the certification.
iii. IPX4 Tests for the connection part

Variation 2 - This variation introduced the following changes:

i. To add a ESD Diode.
ii. Increased the working pressure from 25bar to 64bar only for the full metal version (stainless steel).

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.
1	05 October 2021	R80078902A	This Issue covers the following changes: • The introduction of Variation 1. • The marking in Section 12 was amended to correct a typographical error.
2	02 September 2022	R80133463A	The introduction of Variation 2.

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.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 The manufacturer is responsible that the warning for potential electrostatic charge is covered with advises shown in the instruction manual of the equipment.

17.4 The ambient and process temperature ranges as in the product description shall be shown in the instruction manual of the equipment.

Certificate Annexe

Certificate Number: **CSANe 20ATEX9075X**

Equipment: **VEGAPOINT 21, VEGAPOINT 23 & VEGAPOINT 31**

Applicant: **VEGA Grieshaber KG**

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
GE4158	1 of 1	01	29 Sep 20	VEGAPOINT31&21 Ext/DIP overview device setup
GE4279	1 of 1	-	29 Sep 20	POINT21, POINT31; M12x1 metal overview device setup
	1 to 16	06.10.2020	06 Oct 20	BoM_VEGAPOINT31_21
VEGAZW-6-50981	1 to 16	05.10.2020	06 Oct 20	Technical description VEGAPOINT 31 & VEGAPOINT 21
VEGAZW-6-54861	1 to 9	05.10.2020	06 Oct 20	Product marking VEGAPOINT 31 VEGAPOINT 21
BB1542	1 of 1	1	29 Sep 20	Component layout IMP20-3LB
BB1544	1 of 1	2	29 Sep 20	Component layout IMP20-3L-M
BB1554	1 of 1	1	29 Sep 20	Component layout IMP20-SENS
SB1542	1 to 2	1	29 Sep 20	IMP20-3L IMP20-3LB
SB1544	1 of 1	1	29 Sep 20	IMP20-3L-M
SB1554	1 of 1	1	29 Sep 20	IMP20-SENS
LP1542	1 of 1	1	29 Sep 20	Trace layout IMP20-3LB
LP1544	1 of 1	2	29 Sep 20	Trace layout IMP20-3L-M
LP1554	1 of 1	1	29 Sep 20	Trace layout IMP20-SENS

Issue 1

Drawing	Sheets	Rev.	Date	Date (Stamp)	Title
GE4344	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT31&21 Ext/DIP overview device setup
GE4327	1 of 1	02	20.08.2021	27 Aug 21	POINT23 overview M12x1 metal device setup up to 250mm DIP
GE4328	1 of 1	02	20.08.2021	27 Aug 21	POINT23 overview M12x1 metal device setup 251mm and more DIP
GE4357	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT23 Ext/DIP details device setup up to 250mm
GE4358	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT23 Ext/DIP details device setup 251mm and more
-	1 to 18	-	07.04.2021	27 Aug 21	VEGAPOINT21_31_23 BoM
VEGAZW-6-50981	1 to 19	-	26.08.2021	27 Aug 21	Technical description VEGAPOINT 31 & VEGAPOINT 21 & VEGAPOINT 23
VEGAZW-6-54861	1 to 11	-	04.11.2020	27 Aug 21	Product marking VEGAPOINT 31, VEGAPOINT 21, VEGAPOINT 23
BB1591	1 of 1	1	08.07.2019	27 Aug 21	Component layout IMP20-SVAR
BB1592	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S64
BB1593	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S100
BB1594	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S150
BB1595	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S200
BB1596	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S250
BB1609	1 of 1	1	05.08.2019	27 Aug 21	Component layout IMP20-S64A
BB1610	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S100A
BB1611	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S150A
BB1612	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S200A
BB1613	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S250A
SB1591	1 of 1	1	05.03.2019	27 Aug 21	IMP20-SVAR
SB1592	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S64
SB1593	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S100
SB1594	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S150

Certificate Annexe

Certificate Number: **CSANe 20ATEX9075X**

Equipment: **VEGAPOINT 21, VEGAPOINT 23 & VEGAPOINT 31**

Applicant: **VEGA Grieshaber KG**

Drawing	Sheets	Rev.	Date	Date (Stamp)	Title
SB1595	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S200
SB1596	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S250
SB1609	1 of 1	1	04.07.2019	27 Aug 21	IMP20-S64A
SB1610	1 of 1	1	04.07.2019	27 Aug 21	IMP20-S100A
SB1611	1 of 1	1	09.07.2019	27 Aug 21	IMP20-S150A
SB1612	1 of 1	1	10.07.2019	27 Aug 21	IMP20-S200A
SB1613	1 of 1	1	10.07.2019	27 Aug 21	IMP20-S250A
LP1591	1 of 1	1	08.07.2019	27 Aug 21	Trace layout IMP20-SVAR
LP1592	1 of 1	1	05.07.2019	27 Aug 21	Trace layout IMP20-S64
LP1593	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S100
LP1594	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S150
LP1595	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S200
LP1596	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S250
LP1609	1 of 1	1	05.08.2019	27 Aug 21	Trace layout IMP20-S64A
LP1610	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S100A
LP1611	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S150A
LP1612	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S200A
LP1613	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S250A

The following drawings no longer form part of the certification documentation:

Drawing	Sheets	Rev.	Date (Stamp)	Title
GE4158	1 of 1	01	29 Sep 20	VEGAPOINT31&21 Ext/DIP overview device setup
-	1 to 16	06.10.2020	06 Oct 20	BoM_VEGAPOINT31_21

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
BB1554	1 of 1	2	19 Aug 22	Component layout IMP20-SENS
BB1591	1 of 1	2	19 Aug 22	Component layout IMP20-SVAR
BB1592	1 of 1	2	19 Aug 22	Component layout IMP20-S64
BB1593	1 of 1	2	19 Aug 22	Component layout IMP20-S100
BB1594	1 of 1	2	19 Aug 22	Component layout IMP20-S150
BB1595	1 of 1	2	19 Aug 22	Component layout IMP20-S200
BB1596	1 of 1	2	19 Aug 22	Component layout IMP20-S250
BB1609	1 of 1	2	19 Aug 22	Component layout IMP20-S64A
BB1610	1 of 1	2	19 Aug 22	Component layout IMP20-S100A
BB1611	1 of 1	2	19 Aug 22	Component layout IMP20-S150A
BB1612	1 of 1	2	19 Aug 22	Component layout IMP20-S200A
BB1613	1 of 1	2	19 Aug 22	Component layout IMP20-S250A
LP1554	1 of 1	2	19 Aug 22	Trace layout IMP20-SENS
LP1591	1 of 1	2	19 Aug 22	Trace layout IMP20-SVAR
LP1592	1 of 1	2	19 Aug 22	Trace layout IMP20-S64
LP1593	1 to 2	2	19 Aug 22	Trace layout IMP20-S100
LP1594	1 to 2	2	19 Aug 22	Trace layout IMP20-S150
LP1595	1 to 2	2	19 Aug 22	Trace layout IMP20-S200
LP1596	1 to 2	2	19 Aug 22	Trace layout IMP20-S250
LP1609	1 of 1	2	19 Aug 22	Trace layout IMP20-S64A
LP1610	1 to 2	2	19 Aug 22	Trace layout IMP20-S100A
LP1611	1 to 2	2	19 Aug 22	Trace layout IMP20-S150A
LP1612	1 to 2	2	19 Aug 22	Trace layout IMP20-S200A

Certificate Annexe

Certificate Number: **CSANe 20ATEX9075X**

Equipment: **VEGAPOINT 21, VEGAPOINT 23 & VEGAPOINT 31**

Applicant: **VEGA Grieshaber KG**

Drawing	Sheets	Rev.	Date (Stamp)	Title
LP1613	1 to 2	2	19 Aug 22	Trace layout IMP20-S250A
SB1554	1 of 1	2	19 Aug 22	IMP20-SENS
SB1591	1 of 1	2	19 Aug 22	IMP20-SVAR
SB1592	1 of 1	2	19 Aug 22	IMP20-S64
SB1593	1 of 1	2	19 Aug 22	IMP20-S100
SB1594	1 of 1	2	19 Aug 22	IMP20-S150
SB1595	1 of 1	2	19 Aug 22	IMP20-S200
SB1596	1 of 1	2	19 Aug 22	IMP20-S250
SB1609	1 of 1	2	19 Aug 22	IMP20-S64A
SB1610	1 of 1	2	19 Aug 22	IMP20-S100A
SB1611	1 of 1	2	19 Aug 22	IMP20-S150A
SB1612	1 of 1	2	19 Aug 22	IMP20-S200A
SB1613	1 of 1	2	19 Aug 22	IMP20-S250A

1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 20ATEX9075X** Issue: **1**

4 Equipment: **VEGAPOINT 21, VEGAPOINT 23 & 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:

II 1/2D
Ex ta/tb IIIC T_{200}130°C/T100°C Da/Db

II 2D
Ex tb IIIC T120°C/T100°C Db

Certification code stainless steel version:

II 1/2D
Ex ta/tb IIIC T_{200}130 °C/T110°C Da/Db

II 2D
Ex tb IIIC T120°C/T110°C Db

Project Number 80078903

Signed: J A May
Title: Director of Operations

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
Issue 1

13 **DESCRIPTION OF EQUIPMENT**

The level switch series VEGAPOINT 21, VEGAPOINT 23 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. VEGAPOINT 23 has the difference to the other two models that the sensor tip is extended to a length between 64 mm up to 1,000 mm.

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 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, VEGAPOINT 23 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. The equipment has been separately tested against the requirements of EN 60529 and it meets IP6X, IPX6, IPX8, IPX9.

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 senor tip and the temperature behind the "/" indicates the temperature of the enclosure beyond the thread as per table below.

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
Issue 1

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

Variation 1 - This variation introduced the following changes:

i. Replacement of the plastic material of the connection part, introduction of an alternative O-Ring material, new design and material of circlip and introduction of an alternative new protective cover material.
ii. Introduction of model VEGAPOINT 23 to the certification.
iii. IPX4 Tests for the connection part

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.
1	05 October 2021	R80078902A	This Issue covers the following changes: • The introduction of Variation 1. • The marking in Section 12 was amended to correct a typographical error.

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.

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
Issue 1

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.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 The manufacturer is responsible that the warning for potential electrostatic charge is covered with advises shown in the instruction manual of the equipment.

17.4 The ambient and process temperature ranges as in the product description shall be shown in the instruction manual of the equipment.

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

Certificate Annexe

Certificate Number: **CSANe 20ATEX9075X**

Equipment: **VEGAPOINT 21, VEGAPOINT 23 & VEGAPOINT 31**

Applicant: **VEGA Grieshaber KG**

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
GE4158	1 of 1	01	29 Sep 20	VEGAPOINT31&21 Ext/DIP overview device setup
GE4279	1 of 1	-	29 Sep 20	POINT21, POINT31; M12x1 metal overview device setup
	1 to 16	06.10.2020	06 Oct 20	BoM_VEGAPOINT31_21
VEGAZW-6-50981	1 to 16	05.10.2020	06 Oct 20	Technical description VEGAPOINT 31 & VEGAPOINT 21
VEGAZW-6-54861	1 to 9	05.10.2020	06 Oct 20	Product marking VEGAPOINT 31 VEGAPOINT 21
BB1542	1 of 1	1	29 Sep 20	Component layout IMP20-3LB
BB1544	1 of 1	2	29 Sep 20	Component layout IMP20-3L-M
BB1554	1 of 1	1	29 Sep 20	Component layout IMP20-SENS
SB1542	1 to 2	1	29 Sep 20	IMP20-3L IMP20-3LB
SB1544	1 of 1	1	29 Sep 20	IMP20-3L-M
SB1554	1 of 1	1	29 Sep 20	IMP20-SENS
LP1542	1 of 1	1	29 Sep 20	Trace layout IMP20-3LB
LP1544	1 of 1	2	29 Sep 20	Trace layout IMP20-3L-M
LP1554	1 of 1	1	29 Sep 20	Trace layout IMP20-SENS

Issue 1

Drawing	Sheets	Rev.	Date	Date (Stamp)	Title
GE4344	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT31&21 Ext/DIP overview device setup
GE4327	1 of 1	02	20.08.2021	27 Aug 21	POINT23 overview M12x1 metal device setup up to 250mm DIP
GE4328	1 of 1	02	20.08.2021	27 Aug 21	POINT23 overview M12x1 metal device setup 251mm and more DIP
GE4357	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT23 Ext/DIP details device setup up to 250mm
GE4358	1 of 1	-	12.04.2021	27 Aug 21	VEGAPOINT23 Ext/DIP details device setup 251mm and more
-	1 to 18	-	07.04.2021	27 Aug 21	VEGAPOINT21_31_23 BoM
VEGAZW-6-50981	1 to 19	-	26.08.2021	27 Aug 21	Technical description VEGAPOINT 31 & VEGAPOINT 21 & VEGAPOINT 23
VEGAZW-6-54861	1 to 11	-	04.11.2020	27 Aug 21	Product marking VEGAPOINT 31, VEGAPOINT 21, VEGAPOINT 23
BB1591	1 of 1	1	08.07.2019	27 Aug 21	Component layout IMP20-SVAR
BB1592	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S64
BB1593	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S100
BB1594	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S150
BB1595	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S200
BB1596	1 of 1	1	05.07.2019	27 Aug 21	Component layout IMP20-S250
BB1609	1 of 1	1	05.08.2019	27 Aug 21	Component layout IMP20-S64A
BB1610	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S100A
BB1611	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S150A
BB1612	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S200A
BB1613	1 of 1	1	06.08.2019	27 Aug 21	Component layout IMP20-S250A
SB1591	1 of 1	1	05.03.2019	27 Aug 21	IMP20-SVAR
SB1592	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S64

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

Certificate Annexe

Certificate Number: **CSANe 20ATEX9075X**

Equipment: **VEGAPOINT 21, VEGAPOINT 23 & VEGAPOINT 31**

Applicant: **VEGA Grieshaber KG**

Drawing	Sheets	Rev.	Date	Date (Stamp)	Title
SB1593	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S100
SB1594	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S150
SB1595	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S200
SB1596	1 of 1	1	08.04.2019	27 Aug 21	IMP20-S250
SB1609	1 of 1	1	04.07.2019	27 Aug 21	IMP20-S64A
SB1610	1 of 1	1	04.07.2019	27 Aug 21	IMP20-S100A
SB1611	1 of 1	1	09.07.2019	27 Aug 21	IMP20-S150A
SB1612	1 of 1	1	10.07.2019	27 Aug 21	IMP20-S200A
SB1613	1 of 1	1	10.07.2019	27 Aug 21	IMP20-S250A
LP1591	1 of 1	1	08.07.2019	27 Aug 21	Trace layout IMP20-SVAR
LP1592	1 of 1	1	05.07.2019	27 Aug 21	Trace layout IMP20-S64
LP1593	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S100
LP1594	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S150
LP1595	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S200
LP1596	1 to 2	1	05.07.2019	27 Aug 21	Trace layout IMP20-S250
LP1609	1 of 1	1	05.08.2019	27 Aug 21	Trace layout IMP20-S64A
LP1610	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S100A
LP1611	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S150A
LP1612	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S200A
LP1613	1 to 2	1	06.08.2019	27 Aug 21	Trace layout IMP20-S250A

The following drawings no longer form part of the certification documentation:

Drawing	Sheets	Rev.	Date (Stamp)	Title
GE4158	1 of 1	01	29 Sep 20	VEGAPOINT31&21 Ext/DIP overview device setup
-	1 to 16	06.10.2020	06 Oct 20	BoM_VEGAPOINT31_21

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

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_{200}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_{200}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 senor tip and the temperature behind the "/" indicates the temperature of the enclosure beyond the thread as per table below.

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

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **CSANe 20ATEX9075X**
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.

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

