



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 21ATEX1322X** Issue: **1**

4 Equipment: **Radar sensors types VEGAPULS 6X**

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 60079-1:2014 IEC 60079-26:2021 IEC 60079-31:2022 Ed.3

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:



II 1/2G Ex db IIC T* Ga/Gb
II 2G Ex db IIC T* Gb
II 1D Ex ta IIIC T* Da
II 1/2D Ex ta/tb IIIC T* Da/Db

Signed: Michelle Halliwell

Title: Director of Operations



Project Number 80158411

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DOD 544.09 Issue Date: 2022-04-14

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SCHEDULE

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CSANe 21ATEX1322X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The VEGAPULS 6X is a level-measuring device based on microwave technology and used to detect the distance between the product surface and the sensor.

The VEGAPULS 6X can be installed either in zones 0/1, 1 with Ex db (Flameproof) protection or in zones 20, 20/21, 21 with Ex t (Dustproof) protection. It is manufactured from pre-certified enclosures (Ex-db: IECEx KIWA 17.0015 U/ KIWA 17ATEX0032U and Ex-ta: IECEx BVS 14.0077 U/ BVS 14ATEX121 U) can be assembled with either one of the four different types of antennas versions available.

- a. Plastic horn antenna (B)
- b. Thread with integrated antenna (T)
- c. Flange with plastic plating (F)
- d. Flange with lens antenna (C)
- e. Hygienic Fittings (H)
- f. Horn Antenna (ø19mm) (G)
- g. Horn Antenna (ø25mm) (K)
- h. Horn Antenna (ø40mm) (L)
- i. Horn Antenna (ø48mm) (N)
- j. Horn Antenna (ø75mm) (D)

Category 1/2G (EPL Ga/Gb equipment)

Electrical equipment for explosive atmospheres is to be implemented in the boundary wall of the hazardous area separating zone 0 from zone 1. The measuring probe/antenna is mounted in zone 0 (EPL Ga) and the electronic housing is mounted in zone 1 (EPL Gb). These explosive atmospheres are separated by a glass fused metallic pane between enclosure and the antenna system.

Category 2G (EPL Gb equipment)

The electronics housing and the antenna system with the mechanical fixing element are installed in zone 1.

Category 1D (EPL Da equipment)

The electronics housing and the antennas with the mechanical fixing element are installed in explosion-endangered areas of zone 20, in areas requiring instruments of category 1D (EPL Da).

Category 1/2D (EPL Da/Db equipment)

The electronics housing is installed in hazardous areas of zone 21 requiring instruments of category 2D. The process connection element is installed in the separating wall, which separates areas requiring instruments of category 2D with 1D. The antenna system with the mechanical fixing element is installed in hazardous areas of zone 20.

Category 2D (EPL Db equipment)

The electronics housing and the antenna system with the mechanical fixing element are installed in explosion-endangered areas of zone 21, in areas requiring instruments of category 2D (EPL Db).

Model code

PS6X(Z)(*)a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u

(Z) = not used or digit codes (for example SI) for soft labeling, **not relevant for approval**

(*) = 1 or 2 digit code for internal production control, **not relevant for approval**

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CSANe 21ATEX1322X
Issue 1

a	Sensor Generation #
2	Second Generation
b	Application #
*	one digit code for preselection purposes, not relevant for approval
c	Radar Technology
W	80 GHz
de	Process fitting / Material
XX	universal, plastic horn antenna / PP/PBT
XC	Mounting strap, length: 170mm / 316L/316L
XD	Mounting strap, length: 300 mm / 316/316L
**	other process connection which complies with international or national standards
f	Antenna version
B	plastic horn antenna
T	Thread with integrated antenna
F	Flange with plastic plating
C	Flange with lens antenna
H	Hygienic Fittings
G	Horn Antenna (ø19mm)
K	Horn Antenna (ø25mm)
L	Horn Antenna (ø40mm)
N	Horn Antenna (ø48mm)
D	Horn Antenna (ø75mm)
g	Additional equipment #
X	without
K	Purging air connection
V	Purging air connection with reflux valve
1	Antenna system DD lacquered
N	Device Norsok lacquered

hi	Material / Seal / Process temperature
AA	PEEK / FKM (SHS FPM 70C3 GLT) / -40...+150°C
AB	PEEK / FKM (SHS FPM 70C3 GLT) / -40...+200°C
AC	PEEK / FFKM (Kalrez 6230) / -15...+150°C
AD	PEEK / FFKM (Kalrez 6230) / -15...+250°C
AE	PEEK / FFKM (Kalrez 6375) / -20...+150°C
AF	PEEK / FFKM (Kalrez 6375) / -20...+250°C
AG	PEEK / FFKM (Perlast G75B) / -15...+150°C
AH	PEEK / FFKM (Perlast G75B) / -15...+250°C
AJ	PEEK / FFKM (Perlast G74S) / -15...+150°C
AK	PEEK / FFKM (Perlast G74S) / -15...+250°C
AL	PEEK / EPDM (AP 302) / -40...+150°C
AL	PEEK / EPDM (A+P 70.10-02) / -55...+150°C
AT	PP / PP / -40...+80°C

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CSANe 21ATEX1322X

Issue 1

hi	Material / Seal / Process temperature
AU	PP / FKM (SHS FPM 70C3 GLT) / -40...+80°C
AV	PP / EPDM (COG AP310) / -40...+80°C
AW	PTFE / PTFE / -60...+150°C
A4	PTFE / PTFE / -60...+200°C
AX	PTFE / PTFE / -196...+200°C
AY	PTFE (8mm) / PTFE / -60...+150°C
A5	PTFE (8mm) / PTFE / -60...+200°C
AZ	PTFE (8mm) / PTFE / -196...+200°C
A2	PFA (8mm) / PFA / -40...+150°C
A3	PFA (8mm) / PFA / -40...+200°C
AM	PVDF / FKM / -40...+80°C
AN	Ceramic / Graphite / -196...+450°C
AP	Ceramic / FKM (PPE V71 C) / -40...+150°C
AQ	Ceramic / FFKM (Kalrez 6375) / -20...+250°C
AR	Ceramic / FFKM (Perlast xxx) / -15...+250°C
AS	Ceramic / EPDM / -40...+150°C
A8	PEEK / PEEK / -40...+150°C
A6	PEEK / FKM (COG Vi780) / -10°C...+150°C
A7	PEEK / EPDM (Freudenberg 291) / -20°C...+150°C
A1	PTFE/FFKM (Kalrez 6230) -15°C...+150°C
A9	PTFE/EPDM (Freudenberg 291) -20°C...+150°C
j	Housing / Protection
A	Aluminium single chamber / IP66/IP68 (0.2bar)
H	Special colour aluminium single chamber / IP66/IP68 (0.2bar)
D	Aluminium double chamber / IP66/IP68 (0.2bar)
S	Special colour aluminium double chamber / IP66/IP68 (0.2bar)
V	Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)
W	Stainless steel double chamber / IP66/IP68 (0.2bar)
k	Cable entry / Connection
D	M20x1.5 / Blind plug
1	M20x1.5 / without
N	½NPT / Blind plug
Q	½NPT / without
*	other certified connection or cable gland suitable for the application
l	Display and operation
X	without
A	Display/adjustment module PLICSCOM
F	without; lid with inspection window
B	Display/adjustment module PLICSCOM, laterally mounted
K	Display/adjustment module PLICSCOM, with Bluetooth
L	Display/adjustment module PLICSCOM, laterally mounted, with Bluetooth
m	Electronics

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Issue 1

hi	Material / Seal / Process temperature
H	two-wire 4...20 mA/HART
A	two-wire 4...20 mA/HART with overvoltage protection
9	Two-wire 4 ... 20 mA/HART plus second current output 4...20mA
B	Four-wire 4 ... 20 mA/HART 90...253V; 50/60Hz
I	Four-wire 4 ... 20 mA/HART 9,6V...48V DC; 20...42 V AC
W	Four-wire Modbus
no	Explosion Protection
n =one-digit code for internal production control	
*E	Flameproof
*R	Protection by Enclosure
*J	Flameproof + Protection by Enclosure
p	SIL certified; #
X	without
*	with
q	IT security (IEC 62443-4-2); #
X	without
*	with
r	Approved as overfill protection; #
X	without
*	with
s	Foodstuff / Pharmaceutical certificate; #
X	without
*	with (FDA, EG 1935/2004)
t	Ship approval; #
X	without
*	with
u	Second Line of Defense #
X	without
S	with (for Ex-db)

- Not relevant for the type of protection considered under this project.

Ambient/Process Temperature and temperature class

The temperature ratings are amended for the new electronics. Due to the large data, temperature tables are mentioned in the manufacturer's instruction manual as described below.

The ratings shown under the "Thermal Data" section under the report was reviewed and acceptance. Existing temperature tables from the certificates are deleted and are replaced by a Specific Condition of Use.

Type of Protection: Ex-db Electronic for the Electronics "H", "A", and "9"

Number	Details	Pages
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SCHEDULE

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Issue 1

66214	Safety instructions VEGAPULS 6X Flameproof enclosure "d" Two-wire 4 ... 20 mA/HART (Multilingual) – ATEX Dated: 27.11.2023	1 to 96
66216	Safety instructions VEGAPULS 6X Dust ignition protection Two-wire 4 ... 20 mA/HART (Multilingual) – ATEX Dated: 27.11.2023	1 to 88

Type of Protection: Ex-db Electronic for the Electronics "B", "I", and "W"

Number	Details	Pages
1017850	Safety instructions VEGAPULS 6X Flameproof enclosure "d" Four-wire 4 ... 20 mA/HART, Four-wire Modbus – ATEX Dated: 27.11.2023	1 to 28
1017851	Safety instructions VEGAPULS 6X Dust ignition protection Four-wire 4 ... 20 mA/HART, Four-wire Modbus – ATEX Dated: 27.11.2023	1 to 24

Variation 1 - This variation introduced the following changes:

- i. Addition of horn antenna (Type G, K, L, N, D) and hygienic antenna (Type H) versions.
- ii. Addition of new seal and focusing lens materials in already certified Thread with integrated antenna (T) version for Ex-t.
- iii. Addition of cladding and seal material in already certified plastic plating (F) antenna version for Ex-t.
- iv. Addition of seal material in already certified Flange with lens antenna (C) version for Ex-t.
- v. Addition of seal material in already certified plastic horn antenna (B) version for Ex-t.
- vi. Addition of new electronic modules.
- vii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-31:2014 was replaced by IEC 60079-31 Ed. 3 (2022) Ed 3.
- viii. Manufacturing address changed for VEGA Americas Inc.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

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CSANe 21ATEX1322X
Issue 1

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	06 May 2022	R80087498A	The release of the prime certificate.
1	23 January 2024	R80158410A	The introduction of Variation 1.

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

- 15.1 Cleaning of the equipment should be done only with a damp cloth.
- 15.2 Build-up of electrostatic charge on the surface of an equipment shall be avoided.
- 15.3 The flameproof joints are not intended to be repaired.
- 15.4 The temperature of cable entry point and branching point can be more than 70°C and 80°C, please see instruction/installation manual before installation.
- 15.5 The temperature class based on the maximum ambient temperature and the maximum process temperature, and the ambient and process temperature ranges have to be taken from the safety instructions (document number stated on the type/markings plate).

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.

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Certificate Annexe



Certificate Number: CSANE 21ATEX1322X
Equipment: Radar sensors types VEGAPULS 6X
Applicant: VEGA Grieshaber KG

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
VEGAZW-6-73841	1 to 81	11	12 Apr 22	VEGAPULS 6X ATEX/IECEx Ex db Ex t Application
GE4341	1 of 1	00	05 Apr 22	PULS 6X Ex d threaded ver. With glass window G/NPT
GE4342	1 of 1	00	05 Apr 22	VEGAPULS 6X pl.-horn antenna Ø75 pl. housing
GE4343	1 of 1	00	05 Apr 22	VEGAPULS 6X pl.-horn antenna Ø75 Ex d / XP
GE4347	1 of 1	00	05 Apr 22	VEGAPULS 6X pl. horn antenna ATS with adapter flange
GE4348	1 of 1	00	05 Apr 22	VEGAPULS 6X glass window Ø24
GE4366	1 of 1	00	05 Apr 22	VEGAPULS 6X flange with plastic plating PTFE / PFA
GE4368	1 of 1	00	05 Apr 22	OVERVIEW VEGAPULS 6X flange with lens antenna PEEK
GE4374	1 of 1	00	05 Apr 22	OVERVIEW VEGAPULS 6X Ex d flange with lens antenna PEEK
GE4367	1 of 1	00	05 Apr 22	PULS 6X ATS DN25, DN50, DN80 Flange painted with plating
GE4370	1 of 1	00	05 Apr 22	VEGAPULS 6X flushing ring universal flange, adapter flange
GE2593	1 of 1	02	05 Apr 22	Feed-trough for KLEMP3 plicsplus
VEGAZW-6-73203	1 to 12	05	12 Apr 22	Specification Type plate VEGAPULS 6X
SB1618-1	1 to 3	01	05 Apr 22	PULSP4W-H-SIL (Circuit diagram)
LP1618-1	1 to 8	01	05 Apr 22	PULSP4W-H-SIL (Layout)
BB1618-1	1 to 2	01	05 Apr 22	PULSP4W-H-SIL (Assembly diagram)
SB1627-1	1 of 1	01	05 Apr 22	ZEP4-EMV (Circuit diagram)
LP1627	1 of 1	01	05 Apr 22	ZEP4-EMV (Layout)
BB1627	1 of 1	01	05 Apr 22	ZEP4-EMV (Assembly diagram)
SB1639	1 of 1	01	05 Apr 22	ZEP4-KX (Circuit diagram)
LP1639	1 of 1	01	05 Apr 22	ZEP4-KX (Layout)
BB1639	1 of 1	01	05 Apr 22	ZEP4-KX (Assembly diagram)
SB1503-1-02-0	1 to 2	1-02-0	05 Apr 22	PLICSCOM3 (Circuit diagram)
SB1338-1-01-0	1 of 1	1-01-0	05 Apr 22	PLICSCOM2 (Circuit diagram)
BS275	1 of 1	00	05 Apr 22	VEGAPULS 6X 4..20mA/HART (Block diagram)
BS276	1 of 1	00	05 Apr 22	VEGAPULS 6X, 4 - 20mA/ HART with ZEP4-KX (Block diagram two chamber housing)
BS277	1 of 1	00	05 Apr 22	VEGAPULS 6X, 4 - 20mA/ HART with ZEP4-EMVX (Block diagram two chamber housing)
GE3618-01	1 of 1	01	05 Apr 22	PLICSCOM3 (Complete device)
GE3626-02	1 of 1	02	05 Apr 22	PLICSCOM3 (Component layout)
GE3627-02	1 of 1	02	05 Apr 22	PLICSCOM3 (Trace Layout)
GE3628	1 of 1	00	05 Apr 22	PLICSCOM3 (Component Layout Hall sensor)

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
1015752	1 of 1	00	19-Dec-23	Approval drawing flange with horn 150 °C/250 °C
1015731	1 of 1	00	19-Dec-23	Approval drawing high temperature 450 °C
1015376	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene LA, LB DN50
1015307	1 of 1	00	19-Dec-23	Approval drawing ATS hygienic connection G1 ½" with adapter

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Certificate Annexe



Certificate Number: CSANe 21ATEX1322X
Equipment: Radar sensors types VEGAPULS 6X
Applicant: VEGA Grieshaber KG

Drawing	Sheets	Rev.	Date (Stamp)	Title
1015311	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene G1" O-ring
1015513	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene G1 cone
1019391	1 of 1	00	19-Dec-23	Antenna PULS6X PVDF G1 ½" Exd
1015344	1 of 1	00	19-Dec-23	Antenna PULS6X PVDF G1 ½"
1019259	1 of 1	00	19-Dec-23	Approval drawing ATS hygienic connection G1 1/2" with adapter ExD.
1019272	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene G1" O-ring Exd
1019383	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene G1" Cone Exd
1019254	1 of 1	00	19-Dec-23	Antenna PULS6X hygiene LA, LB DN50 Exd
1019039	1 of 1	00	19-Dec-23	Approval drawing flange with horn 150 °C/250 °C ExD
GE4317	1 of 1	--	19-Dec-23	VEGAPULS 6X threaded version with/without glass window G/NPT
GE4365	1 of 1	--	19-Dec-23	VEGAPULS 6X flange with plastic plating PTFE/PFA
VEGAZW-6-80328	1 to 41	06	19-Dec-23	Application document for VEGAPULS 6X
GE4368	1 of 1	--	21-Mar-22	Overview VEGAPULS 6X with lens antenna PEEK
GE4342	1 of 1	--	05-Apr-22	VEGAPULS 6X Pl. horn antenna Ø75 pl. housing
VEGAZW-6-73203	1 to 13	07	19-Dec-23	Specification Type Plate VEGAPULS 6X
VEGAZW-6-79518	1 to 13	04	19-Dec-23	Thermal Evaluation VEGAPULS 6X In comparison to VEGAPULS 64 / VEGAPULS 69 Ex db / Ex t

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1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 21ATEX1322X** Issue: **0**

4 Equipment: **Radar sensors types VEGAPULS 6X**

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.

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12 The marking of the equipment shall include the following:



II 1/2G Ex db IIC T* Ga/Gb
II 2G Ex db IIC T* Gb
II 1D Ex ta IIIC T* Da
II 1/2D Ex ta/tb IIIC T* Da/Db

Signed: J A May

Title: Director of Operations



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SCHEDULE

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CSANe 21ATEX1322X
Issue 0

13 DESCRIPTION OF EQUIPMENT

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The VEGAPULS 6X can be installed either in zones 0/1, 1 with Ex db (Flameproof) protection or in zones 20, 20/21, 21 with Ex t (Dustproof) protection. It is manufactured from pre-certified enclosures (Ex-db: IECEx KIWA 17.0015 U/ KIWA 17ATEX0032U and Ex-ta: IECEx BVS 14.0077 U/ BVS 14ATEXE121 U) can be assembled with either one of the four different types of antennas versions available.

- a. Plastic horn antenna (B)
- b. Thread with integrated antenna (T)
- c. Flange with plastic plating (F)
- d. Flange with lens antenna (C)

Category 1/2G (EPL Ga/Gb equipment)

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Category 2G (EPL Gb equipment)

The electronics housing and the antenna system with the mechanical fixing element are installed in zone 1.

Category 1D (EPL Da equipment)

The electronics housing and the antennas with the mechanical fixing element are installed in explosion-endangered areas of zone 20, in areas requiring instruments of category 1D (EPL Da).

Category 1/2D (EPL Da/Db equipment)

The electronics housing is installed in hazardous areas of zone 21 requiring instruments of category 2D. The process connection element is installed in the separating wall, which separates areas requiring instruments of category 2D with 1D. The antenna system with the mechanical fixing element is installed in hazardous areas of zone 20.

Category 2D (EPL Db equipment)

The electronics housing and the antenna system with the mechanical fixing element are installed in explosion-endangered areas of zone 21, in areas requiring instruments of category 2D (EPL Db).

Model Code

PS6X(Z)(*).a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u

(Z) = not used or digit codes (for example SI) for soft labeling, **not relevant for approval**

(*) = 1 or 2 digit code for internal production control, **not relevant for approval**

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 21ATEX1322X

Issue 0

a	Sensor Generation #
2	Second Generation
b	Application #
*	one digit code for preselection purposes, not relevant for approval
c	Radar Technology
W	80 GHz
de	Process fitting / Material
XX	universal, plastic horn antenna / PP/PBT
XC	Mounting strap, length: 170mm / 316L/316L
XD	Mounting strap, length: 300 mm / 316/316L
**	other process connection which complies with international or national standards
f	Antenna version #
B	plastic horn antenna
T	Thread with integrated antenna
F	Flange with plastic plating
C	Flange with lens antenna
g	Additional equipment #
X	without
K	Purging air connection
V	Purging air connection with reflux valve
1	Antenna system DD lacquered
hi	Material / Seal / Process temperature
AA	PEEK / FKM (SHS FPM 70C3 GLT) / -40...+150°C #
AB	PEEK / FKM (SHS FPM 70C3 GLT) / -40...+200°C #
AC	PEEK / FFKM (Kalrez 6230) / -15...+150°C #
AD	PEEK / FFKM (Kalrez 6230) / -15...+250°C #
AE	PEEK / FFKM (Kalrez 6375) / -20...+150°C #
AF	PEEK / FFKM (Kalrez 6375) / -20...+250°C #
AG	PEEK / FFKM (Perlast G75B) / -15...+150°C #
AH	PEEK / FFKM (Perlast G75B) / -15...+250°C #
AJ	PEEK / FFKM (Perlast G74S) / -15...+150°C #
AK	PEEK / FFKM (Perlast G74S) / -15...+250°C #
AL	PEEK / EPDM (Ap 302) / -40...+150°C #
AL	PEEK / EPDM (A+P 70.10-02) / -55...+150°C #
AT	PP / PP / -40...+80°C #
AU	PP / FKM (SHS FPM 70C3 GLT) / -40...+80°C #
AV	PP / EPDM (COG AP310) / -40...+80°C #
AW	PTFE / PTFE / -60...+150°C #
A4	PTFE / PTFE / -60...+200°C #
AX	PTFE / PTFE / -196...+200°C #
AY	PTFE (8mm) / PTFE / -60...+150°C #
A5	PTFE (8mm) / PTFE / -60...+200°C #
AZ	PTFE (8mm) / PTFE / -196...+200°C #

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Issue 0

A2	PFA (8mm) / PFA / -40...+150°C #
A3	PFA (8mm) / PFA / -40...+200°C #
j	Housing / Protection
A	Aluminium single chamber / IP66/IP68 (0.2bar)
H	Special colour aluminium single chamber / IP66/IP68 (0.2bar)
D	Aluminium double chamber / IP66/IP68 (0.2bar)
S	Special colour aluminium double chamber / IP66/IP68 (0.2bar)
V	Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)
W	Stainless steel double chamber / IP66/IP68 (0.2bar)
k	Cable entry / Connection
D	M20x1.5 / Blind plug
1	M20x1.5 / without
N	1/2NPT / Blind plug
Q	1/2NPT / without
*	other certified connection or cable gland suitable for the application
l	Display and operation
X	without
A	Display/adjustment module PLICSCOM
F	without; lid with inspection window
B	Display/adjustment module PLICSCOM, laterally mounted
K	Display/adjustment module PLICSCOM, with Bluetooth
L	Display/adjustment module PLICSCOM, laterally mounted, with Bluetooth
m	Electronics
H	two-wire 4...20 mA/HART
A	two-wire 4...20 mA/HART with overvoltage protection
no	Explosion Protection
	n =one-digit code for internal production control
*E	Flameproof
*R	Protection by Enclosure
*J	Flameproof + Protection by Enclosure

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p	SIL certified; #
X	without
*	with
q	IT security (IEC 62443-4-2); #
X	without
*	with
r	Approved as overfill protection; #
X	without
*	with
s	Foodstuff / Pharmaceutical certificate; #
X	without
*	with (FDA, EG 1935/2004)
t	Ship approval; #
X	without
*	with
u	Second Line of Defense #
X	without
S	with (for Ex-db)

- Not relevant for the type of protection considered under this project.

Ambient/Process Temperature and temperature class

Type of Protection: Ex-d

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
Plastic Horn Antenna (B)	80 °C Only with glass pane	Aluminium & Stainless Steel -40°C to +80°C	Aluminium & Stainless Steel -60°C to +75°C	Aluminium & Stainless Steel -50°C to +75°C	T6 T5 T4 T3...T1

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
Thread with integrated antenna (T)	Only with Glass pane G3/4" ATS 150 °C 3/4" NPT ATS 150 °C G1" ATS 150 °C 1" NPT ATS 150 °C G1 1/2" ATS 150 °C 1 1/2" NPT ATS 150 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C	Aluminium -60°C to +75°C -60°C to +70°C -60°C to +59°C -60°C to +52°C Stainless Steel -60°C to +74°C -60°C to +67°C -60°C to +50°C -60°C to +41°C	Aluminium -50°C to +75°C -50°C to +70°C -50°C to +59°C -50°C to +52°C Stainless Steel -50°C to +75°C -50°C to +67°C -50°C to +50°C -50°C to +41°C	Aluminium T6 T5 T4 T3...T1 Stainless Steel T6 T5 T4 T3...T1
	Only with Glass pane G1 1/2" ATS 200 °C 1 1/2" NPT ATS 200 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C	Aluminium -60°C to +75°C -60°C to +72°C -60°C to +67°C -60°C to +62°C Stainless Steel -60°C to +75°C -60°C to +73°C -60°C to +63°C -60°C to +54°C	Aluminium -50°C to +75°C -50°C to +72°C -50°C to +67°C -50°C to +62°C Stainless Steel -50°C to +75°C -50°C to +73°C -50°C to +63°C -50°C to +54°C	Aluminium T6 T5 T4 T3...T1 Stainless Steel T6 T5 T4 T3...T1

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SCHEDULE

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
	Only with Glass pane G3/4" ATS 250 °C 3/4" NPT ATS 250 °C G1" ATS 250 °C 1" NPT ATS 250 °C G1 1/2" ATS 250 °C 1 1/2" NPT ATS 250 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C -60°C to +250°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C -60°C to +250°C	Aluminium -60°C to +75°C -60°C to +72°C -60°C to +64°C -60°C to +60°C -60°C to +54°C Stainless Steel -60°C to +75°C -60°C to +70°C -60°C to +60°C -60°C to +54°C -60°C to +44°C	Aluminium -50°C to +75°C -50°C to +72°C -50°C to +64°C -50°C to +60°C -50°C to +54°C Stainless Steel -50°C to +75°C -50°C to +70°C -50°C to +60°C -50°C to +54°C -50°C to +44°C	Aluminium T6 T5 T4 T3 T2...T1 Stainless Steel T6 T5 T4 T3 T2...T1

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
Flange with plastic plating (F)	Only with Glass pane PULS6X ATS DN25 150 °C PULS6X ATS DN50 150 °C PULS6X ATS DN80 150 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C	Aluminium -60°C to +75°C -60°C to +70°C -60°C to +70°C -60°C to +59°C -60°C to +53°C Stainless Steel -60°C to +74°C -60°C to +70°C -60°C to +70°C -60°C to +58°C -60°C to +51°C	Aluminium -50°C to +75°C -50°C to +70°C -50°C to +70°C -50°C to +59°C -50°C to +53°C Stainless Steel -50°C to +74°C -50°C to +70°C -50°C to +70°C -50°C to +58°C -50°C to +51°C	Aluminium T6 T5 T4 T3...T1 Stainless Steel T6 T5 T4 T3...T1
	Only with Glass pane PULS6X ATS DN25 200 °C PULS6X ATS DN50 200 °C PULS6X ATS DN80 200 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +195°C	Aluminium -60°C to +75°C -60°C to +71°C -60°C to +62°C -60°C to +62°C Stainless Steel -60°C to +75°C -60°C to +70°C -60°C to +70°C -60°C to +61°C -60°C to +54°C	Aluminium -50°C to +75°C -50°C to +71°C -50°C to +62°C -50°C to +62°C Stainless Steel -50°C to +75°C -50°C to +70°C -50°C to +70°C -50°C to +61°C -50°C to +54°C	Aluminium T6 T5 T4 T3...T1 Stainless Steel T6 T5 T4 T3...T1

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
		Aluminium -196°C to +80°C -196°C to +95°C -196°C to +130°C -196°C to +195°C Stainless Steel -196°C to +80°C -196°C to +95°C -196°C to +130°C -196°C to +195°C	Aluminium -30°C to +75°C -30°C to +71°C -30°C to +62°C -30°C to +62°C Stainless Steel -30°C to +75°C -30°C to +70°C -30°C to +61°C -30°C to +54°C	Aluminium -20°C to +75°C -20°C to +71°C -20°C to +62°C -20°C to +62°C Stainless Steel -20°C to +75°C -20°C to +70°C -20°C to +61°C -20°C to +54°C	Aluminium T6 T5 T4 T3...T1 Stainless Steel T6 T5 T4 T3...T1

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class				
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C					
Flange with lens antenna (C)	Only with glass pane Flange Version 150 °C Swivel version 150 °C Cam lock version 150 °C	Aluminium	Aluminium	Aluminium	Aluminium				
						-60°C to +80°C	-60°C to +75°C	-50°C to +75°C	T6
						-60°C to +95°C	+75°C	+75°C	T5
						-60°C to +130°C	-60°C to +72°C	-50°C to +72°C	T4
						-60°C to +150°C	+72°C	+72°C	T3...T1
						Stainless Steel	-60°C to +65°C	-50°C to +65°C	Stainless Steel
		-60°C to +80°C	+65°C	+65°C	T6				
		-60°C to +95°C	-60°C to +61°C	-50°C to +61°C	T5				
		-60°C to +130°C	+61°C	+61°C	T4				
		-60°C to +150°C	Stainless Steel	Stainless Steel	T3...T1				
		-60°C to +75°C	-50°C to +75°C	-50°C to +75°C					
		+70°C	+70°C	+70°C					
-60°C to +59°C	-50°C to +59°C	-50°C to +59°C							
+59°C	+59°C	+59°C							
-60°C to +52°C	-50°C to +52°C	-50°C to +52°C							
+52°C	+52°C	+52°C							

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**CSANe 21ATEX1322X
Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
	Only with glass pane Flange Version 200 °C Swivel version 200 °C Cam lock version 200 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C -60°C to +195°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C -60°C to +195°C	Aluminium -60°C to +75°C -60°C to +72°C -60°C to +67°C -60°C to +65°C -60°C to +61°C Stainless Steel -60°C to +75°C -60°C to +73°C -60°C to +66°C -60°C to +61°C -60°C to +54°C	Aluminium -50°C to +75°C -50°C to +72°C -50°C to +67°C -50°C to +65°C -50°C to +61°C Stainless Steel -50°C to +75°C -50°C to +73°C -50°C to +66°C -50°C to +61°C -50°C to +54°C	Aluminium T6 T5 T4 T3 T2...T1 Stainless Steel T6 T5 T4 T3 T2...T1

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Issue 0**

Antenna Type (Code)	Versions	Process Temperature (Zone 0)	Ambient Temperature (Zone 1)		Temperature Class
			With blind cover -60°C to +80°C	With Window Cover -50°C to +80°C	
	Only with glass pane Flange Version 250 °C Swivel version 250 °C Cam lock version 250 °C	Aluminium -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C -60°C to +250°C Stainless Steel -60°C to +80°C -60°C to +95°C -60°C to +130°C -60°C to +150°C -60°C to +250°C	Aluminium -60°C to +75°C -60°C to +72°C -60°C to +72°C -60°C to +67°C -60°C to +65°C -60°C to +61°C Stainless Steel -60°C to +75°C -60°C to +73°C -60°C to +66°C -60°C to +61°C -60°C to +54°C	Aluminium -50°C to +75°C -50°C to +72°C -50°C to +67°C -50°C to +65°C -50°C to +61°C Stainless Steel -50°C to +75°C -50°C to +73°C -50°C to +66°C -50°C to +61°C -50°C to +54°C	Aluminium T6 T5 T4 T3 T2...T1 Stainless Steel T6 T5 T4 T3 T2...T1

Type of Protection: Ex-t

EPL Da equipment - Complete equipment (antenna and enclosure) installed in zone 20 (surrounded by 200mm dust):

- Maximum permitted ambient/process temperature **65°C**
- Maximum temperature rise considered on the internal component with the fault condition: **+35 K**
- Maximum surface temperature = 65 °C +35 K = **T100°C**

EPL Db equipment - Complete equipment (antenna and enclosure) in zone 21 (without dust layer):

- Maximum permitted ambient/process temperature **65 °C**
- Surface temperature = ambient/process temperature **+35 K**
- Maximum surface temperature = 65 °C +35 K = **T100 °C**

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EPL Da/Db equipment – Enclosure installed in zone 21 without a layer of dust, antenna installed in zone 20:

Temperature rise: +35 K

Electronic Enclosure Material	Permitted process temperature range in Zone 20 at the antenna side	Permitted ambient temperature range in zone 21 at the electronic enclosure	Maximum surface temperature
Plastic Horn Antenna (B)			
Aluminium	-40°C to 76°C	-40°C to 65°C	+100°C
Stainless Steel	-40°C to 76°C	-40°C to 65°C	+100°C
Thread with Integrated Antenna (T)			
Aluminium	-60°C to 130°C	-40°C to 57°C	+132°C
	-60°C to 130°C	-40°C to 65°C	+132°C
	-60°C to 150°C	-40°C to 48°C	+152°C
	-60°C to 195°C	-40°C to 62°C	+197°C
	-60°C to 195°C	-40°C to 63°C	+197°C
Stainless Steel	-60°C to 250°C	-40°C to 55°C	+252°C
	-60°C to 130°C	-40°C to 47°C	+132°C
	-60°C to 130°C	-40°C to 65°C	+132°C
	-60°C to 150°C	-40°C to 34°C	+152°C
	-60°C to 195°C	-40°C to 49°C	+197°C
-60°C to 195°C	-40°C to 56°C	+197°C	
-60°C to 250°C	-40°C to 45°C	+252°C	
Flange with plastic plating (F)			
Aluminium	-60°C to 130°C	-40°C to 57°C	+132°C
	-60°C to 130°C	-40°C to 65°C	+132°C
	-60°C to 150°C	-40°C to 48°C	+152°C
	-60°C to 195°C	-40°C to 62°C	+197°C
Stainless Steel	-60°C to 130°C	-40°C to 47°C	+132°C
	-60°C to 130°C	-40°C to 65°C	+132°C
	-60°C to 150°C	-40°C to 34°C	+152°C
	-60°C to 195°C	-40°C to 49°C	+197°C
Flange with lens antenna (C)			
Aluminium	-40°C to 130°C	-40°C to 65°C	+132°C
	-40°C to 150°C	-40°C to 58°C	+152°C
	-40°C to 195°C	-40°C to 62°C	+197°C
	-40°C to 195°C	-40°C to 63°C	+197°C
	-40°C to 250°C	-40°C to 55°C	+252°C
Stainless Steel	-40°C to 130°C	-40°C to 57°C	+132°C
	-40°C to 130°C	-40°C to 65°C	+132°C
	-40°C to 150°C	-40°C to 48°C	+152°C
	-40°C to 195°C	-40°C to 49°C	+197°C

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Stainless Steel	Flange with lens antenna (C)		
	-40°C to 195°C	-40°C to 56°C	+197°C
	-40°C to 250°C	-40°C to 45°C	+252°C

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	06 May 2022	R80087498A	The release of the prime certificate.

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

- 15.1 Cleaning of the equipment should be done only with a damp cloth.
- 15.2 Build-up of electrostatic charge on the surface of an equipment shall be avoided.
- 15.3 The flameproof joints are not intended to be repaired.
- 15.4 The temperature of cable entry point and branching point can be more than 70°C and 80°C, please see instruction/installation manual before installation.

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.

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Certificate Annexe



Certificate Number: CSANe 21ATEX1322X
Equipment: Radar sensors types VEGAPULS 6X
Applicant: VEGA Grieshaber KG

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
VEGAZW-6-73841	1 to 81	11	12 Apr 22	VEGAPULS 6X ATEX/IECEx Ex db Ex t Application
GE4341	1 of 1	00	05 Apr 22	PULS 6X Ex d threaded ver. With glass window G/NPT
GE4342	1 of 1	00	05 Apr 22	VEGAPULS 6X pl.-horn antenna Ø75 pl. housing
GE4343	1 of 1	00	05 Apr 22	VEGAPULS 6X pl.-horn antenna Ø75 Ex d / XP
GE4347	1 of 1	00	05 Apr 22	VEGAPULS 6X pl. horn antenna ATS with adapter flange
GE4348	1 of 1	00	05 Apr 22	VEGAPULS 6X glass window Ø24
GE4366	1 of 1	00	05 Apr 22	VEGAPULS 6X flange with plastic plating PTFE / PFA
GE4368	1 of 1	00	05 Apr 22	OVERVIEW VEGAPULS 6X flange with lens antenna PEEK
GE4374	1 of 1	00	05 Apr 22	OVERVIEW VEGAPULS 6X Ex d flange with lens antenna PEEK
GE4367	1 of 1	00	05 Apr 22	PULS 6X ATS DN25, DN50, DN80 Flange painted with plating
GE4370	1 of 1	00	05 Apr 22	VEGAPULS 6X flushing ring universal flange, adapter flange
GE2593	1 of 1	02	05 Apr 22	Feed-trough for KLEMP3 plicsplus
VEGAZW-6-73203	1 to 12	05	12 Apr 22	Specification Type plate VEGAPULS 6X
SB1618-1	1 to 3	01	05 Apr 22	PULSP4W-H-SIL (Circuit diagram)
LP1618-1	1 to 8	01	05 Apr 22	PULSP4W-H-SIL (Layout)
BB1618-1	1 to 2	01	05 Apr 22	PULSP4W-H-SIL (Assembly diagram)
SB1627-1	1 of 1	01	05 Apr 22	ZEP4-EMV (Circuit diagram)
LP1627	1 of 1	01	05 Apr 22	ZEP4-EMV (Layout)
BB1627	1 of 1	01	05 Apr 22	ZEP4-EMV (Assembly diagram)
SB1639	1 of 1	01	05 Apr 22	ZEP4-KX (Circuit diagram)
LP1639	1 of 1	01	05 Apr 22	ZEP4-KX (Layout)
BB1639	1 of 1	01	05 Apr 22	ZEP4-KX (Assembly diagram)
SB1503-1-02-0	1 to 2	1-02-0	05 Apr 22	PLICSCOM3 (Circuit diagram)
SB1338-1-01-0	1 of 1	1-01-0	05 Apr 22	PLICSCOM2 (Circuit diagram)
BS275	1 of 1	00	05 Apr 22	VEGAPULS 6X 4..20mA/HART (Block diagram)
BS276	1 of 1	00	05 Apr 22	VEGAPULS 6X, 4 - 20mA/ HART with ZEP4-KX (Block diagram two chamber housing)
BS277	1 of 1	00	05 Apr 22	VEGAPULS 6X, 4 - 20mA/ HART with ZEP4-EMVX (Block diagram two chamber housing)
GE3618-01	1 of 1	01	05 Apr 22	PLICSCOM3 (Complete device)
GE3626-02	1 of 1	02	05 Apr 22	PLICSCOM3 (Component layout)
GE3627-02	1 of 1	02	05 Apr 22	PLICSCOM3 (Trace Layout)
GE3628	1 of 1	00	05 Apr 22	PLICSCOM3 (Component Layout Hall sensor)

Project Number 80087497

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