



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 23ATEX1067X** Issue: **0**

4 Equipment: **NivoRadar NR4100 & NivoRadar NR7200**

5 Applicant: **UWT GmbH**

6 Address: **Westendstraße 5
87488 Betzigau
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 60079-11:2012 EN 60079-26:2015

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:

NivoRadar 7200



II 1G,1/2G
Ex ia IIC T4 Ga, Ga/Gb

NivoRadar 4100:



II 1G,1/2G Ex ia IIC T4 Ga, Ga/Gb
II 1D,1/2D Ex ia IIIC T₂₀₀ 134°C Da, Da/Db
Ta = -40°C to +80°C

Ta = -40°C to +70°C



Signed: **Michelle Halliwell**

Title: **Director of Operations**

Project Number 80159358

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1067X
Issue 0

13 DESCRIPTION OF EQUIPMENT

Radar sensors types NivoRadar 7200, 4100 for use in explosive atmospheres caused by the presence of combustible gases or dusts, are used for monitoring and control of filling levels by means of microwave technology. The electronics, mounted in an plastic enclosure converts the reflected microwave echo, indicating the filling level, into an 2-wire 4...20mA HART signal. Operation and control of the sensor can either be through the wired connection or via smart phone and UWT Level App (Bluetooth).

The sensor is either equipped with a fixed cable (NivoRadar 4100) of 5m, 10 m, 25m or selectable length with a G1", 1"NPT or R1" threaded connection or a 2 wire terminal (NivoRadar 7200) via a M20x1.5 or 1/2" NPT cable entry.

NivoRadar 7200 (without display) and NivoRadar 7200 (with display) are electrically identical where type NivoRadar 7200 (without display) is equipped without a display module and a blind cover and type NivoRadar 7200 (with display) is equipped with a display module and a windowed cover.

Ambient temperature range for NivoRadar 7200: -40 °C to +70 °C

Ambient temperature range for NivoRadar 4100: -40 °C to +80 °C

Process temperature range : -40 °C to +80 °C

Electrical Data

NivoRadar 4100:

Supply and output circuit (+ (Brown wire), - (Blue wire)):

in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

Ui = 30 V; li = 131 mA; Pi = 983 mW; Ci = 0.18 nF/m; Li =0.65 µH/m

NivoRadar 7200:

Supply and output circuit (+ (terminals 1), - (terminal 2)):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

Ui = 30 V; li = 131 mA; Pi = 983 mW; Ci ≈ 0 nF; Li ≈ 0 µH

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

| Issue | Date | Report number | Comment |
|-------|-------------|---------------|---------------------------------------|
| 0 | 15 May 2023 | R80159358A | The release of the prime certificate. |

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

15.1 For electrical and thermal data refer to equipment section.

15.2 The equipment shall be installed and maintained such that hazards caused by electrostatic discharge are excluded.



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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 23ATEX1067X

Equipment: NivoRadar NR4100 & NivoRadar NR7200

Applicant: UWT GmbH

Issue 0

| Drawing | Sheets | Rev. | Date (Stamp) | Title |
|---------|---------|------|--------------|---|
| 6-84223 | 1 to 10 | - | 12 May 23 | Specification Typeplate NivoRadar 4200 NivoRadar 7100 Ex ia |

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