



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 15ATEX9352X** Issue: **2**

4 Equipment: **NivoRadar NR 3000 Level Monitoring Radar Equipment**

5 Applicant: **UWT GmbH**

6 Address: **Westendstrasse 5
D-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 IEC 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:



II 1 D, 1/2 D, 2 D
Ex ta IIIC T139°C Da IP68
(Ta = -40°C to +80°C)

(The equipment is suitable for use in Zone 20, but is marked 1D, 1/2D and 2D to indicate that it may also be used on the boundary between a Zone 20 and a Zone 21 or totally within a Zone 21.)

Note - Due to restrictions applied by the applicant some products that are detailed in this certificate may not be commercially available.



Signed: Michelle Halliwell

Title: Director of Operations

Project Number 80133404

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 15ATEX9352X
Issue 2

13 DESCRIPTION OF EQUIPMENT

The NivoRadar NR 3000, available in either HART or Profibus/Foundation Fieldbus version, is a continuous level measurement instrument using radar technology. The HART version is connected to loop power (4-20 mA), which provides power and communication to and from the device while the Profibus/Foundation Fieldbus version is powered and communicated through the Profi/FF communication link itself.

The circuit is housed in a two part welded stainless steel enclosure. The upper enclosure, accessible via the threaded cover, houses the following PCBs:

- Main board (either HART or Profi/FF)
- FMCW Radar Technology board
- FMCW Radar HF module
- Display Interface main card
- Removable Display board

Except for the Display Interface main card and the Removable Display Module, all other PCBs are encapsulated within a plastic housing. Electrical connections are made via a conduit entry to a 2-way terminal block situated on top of this housing.

The lower enclosure is the sensor housing containing all the radar sensing components (emitter, lens, moisture absorbent material) as well as aiming parts (horn, flange).

Variation 1 - This variation introduced the following change:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge EN 60079-0:2009 and IEC 60079-31:2008 were replaced by EN IEC 60079-0:2018 and IEC 60079-31:2014.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	09 February 2016	R70051339A	The release of the prime certificate.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 15ATEX9352X
Issue 2

Issue	Date	Report number	Comment
1	15 October 2019	1418	<ul style="list-style-type: none">• Transfer of certificate Sira 15ATEX9352X from Sira Certification Service to CSA Group Netherlands B.V.• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>
2	18 November 2022	R80133404A	The introduction of Variation 1.

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

- 15.1 Parts of the enclosure may be non-conducting and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam), which might cause a build-up of electrostatic charge on non-conducting surfaces
- 15.2 The supply to the equipment shall be rated for a prospective short-circuit current of not more than 10 kA and shall be protected by a suitably-rated fuse.

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: Sira 15ATEX9352X

Equipment: NivoRadar NR 3000 Level Monitoring Radar Equipment

Applicant: UWT GmbH

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
A5E36852453	1 of 1	1	04 Feb 16	UWT NivoRadar NR 3000 HART Hazardous Nameplate Drawing

Issue 1. No new drawings were introduced

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
A5E36852453	1 of 1	3	06 Oct 22	UWT NivoRadar NR 3000 HART Hazardous Nameplate Drawing

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