



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX9352X** Issue: **0**

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 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2009 IEC 60079-31:2008

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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 1D, 1/2D, 2D
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.

Project Number 70051339

This certificate and its schedules may only be reproduced in its entirety and without change.

R A Craig
Certification Support Officer

Sira Certification Service
Unit 6, Hawarden Industrial Park,
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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

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Issue 0

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).

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

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

14.3 Certificate number Sira 09ATEX9356X Issue 2

15 SPECIAL CONDITIONS FOR SAFE 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.

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Sira Certification Service

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Hawarden, CH5 3US, United Kingdom



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17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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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

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