



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 15.0128X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2016-02-09)

Status: **Current** Issue No: 1

Date of Issue: 2022-11-18

Applicant: **UWT GmbH**  
Westendstrasse 5  
D-87488 Betzigau  
Germany

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

Optional accessory:

Type of Protection: **Increased Safety, Intrinsically Safe, and Dust Protection by Enclosure**

Marking: Ex ec IIC T4 Gc  
Ex ic IIC T4 Gc  
Ex ta IIIC T139°C Da IP68  
Ta = -40°C to +80°C

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

Approved for issue on behalf of the IECEx  
Certification Body:

**Michelle Halliwell**

Position:

**Director Operations, UK & Industrial Europe**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**CSA Group Testing UK Ltd**  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside CH5 3US  
United Kingdom





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**Germany**

Manufacturing  
locations: **UWT GmbH**  
Westendstrasse 5  
D-87488 Betzigau  
**Germany**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/SIR/ExTR15.0318/00](#)

[GB/SIR/ExTR22.0182/00](#)

Quality Assessment Report:

[DE/BVS/QAR11.0007/08](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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).

## **Refer to the Annexe for Equipment ratings and Safety Parameters**

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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.
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.
3. \* Any glands, conduit entry devices or blanking elements fitted to the equipment shall be suitably Certified and installed in compliance with IEC 60079-14 for the explosive environment, method of protection, and environmental conditions applicable for end use.

\*Note : This condition is not applicable for Ex "ta" protection.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

**This issue, Issue 1, recognises the following change:**

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge IEC 60079-0:2007-10 Edition:5, IEC 60079-0:2004 Edition:4.0, IEC 60079-15:2005-03 Edition:3 and IEC 60079-31:2008 Edition:1 were replaced by IEC 60079-0:2017 Edition:7.0, IEC 60079-11:2011 Edition:6.0, IEC 60079-31:2013 Edition:2 and IEC 60079-7:2017 Edition:5.1, the markings were updated accordingly.

## **Annex:**

[IECEX SIR 15.0128X Annexe Issue 1.pdf](#)

Annexe to: IECEx SIR 15.0128X Issue 1

Applicant: UWT GmbH

Apparatus: NivoRadar NR 3000 Level Monitoring Radar Equipment



Equipment ratings:

HART versions: 24 V(d.c.) Nom., 30 V(d.c.) Max., 4-20 mA

PROFIBUS PA & FOUNDATION FIELDBUS versions: 32 V(d.c.) Max., 13.5 mA

The equipment may be used as either Increased safety (Ex ec) or Intrinsically safe (Ex ic)

As Increased safety (Ex ec) equipment, the equipment is rated:

Un = 32 V

As Intrinsically safe (Ex ic) equipment, the equipment has the following safety parameters:

Foundation Fieldbus	Profibus PA	HART
Entity Parameters Ui=32 V Ii = 13.5 mA Ci ≤5 nF Li ≤ 20 μH	Entity Parameters Ui=32 V Ii = 13.5 mA Ci ≤5 nF Li ≤ 20 μH	Ui=32 V Ii = 22.63 mA Ci ≤5 nF Li ≤ 20 μH

### Full certificate change history

Issue 1 – this Issue introduced the following change:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge IEC 60079-0:2007-10 Edition:5, IEC 60079-0:2004 Edition:4.0, IEC 60079-15:2005-03 Edition:3 and IEC 60079-31:2008 Edition:1 were replaced by IEC 60079-0:2017 Edition:7.0, IEC 60079-11:2011 Edition:6.0, IEC 60079-31:2013 Edition:2 and IEC 60079-7:2017 Edition:5.1, the markings were updated accordingly.