



# 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 CSAE 23.0012X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-05-15

Applicant: **UWT GmbH**  
Westendstr. 5  
87488 Betzigau  
Germany

Equipment: **NivoRadar NR4100 & NivoRadar NR7200**

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: **NivoRadar 7200:**  
Ex ia IIC T4 Ga or Ga/Gb  
Ta = -40°C to +70°C

**NivoRadar 4100:**  
Ex ia IIC T4 Ga, Ga/Gb  
Ex ia IIIC T<sub>200</sub> 134°C Da, Da/Db  
Ta = -40°C to +80°C

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.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX CSAE 23.0012X**

Page 2 of 3

Date of issue: 2023-05-15

Issue No: 0

Manufacturer: **UWT GmbH**  
Westendstr. 5  
87488 Betzigau  
**Germany**

Manufacturing  
locations: **UWT GmbH**  
Westendstr. 5  
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 60079-26:2014-10](#) Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga  
Edition:3.0

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 Report:

[GB/CSAE/ExTR23.0040/00](#)

Quality Assessment Report:

[DE/BVS/QAR11.0007/09](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX CSAE 23.0012X**

Page 3 of 3

Date of issue: 2023-05-15

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 a 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:

$U_i = 30 \text{ V}$ ;  $I_i = 131 \text{ mA}$ ;  $P_i = 983 \text{ mW}$ ;  $C_i = 0.18 \text{ nF/m}$ ;  $L_i = 0.65 \text{ } \mu\text{H/m}$

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:

$U_i = 30 \text{ V}$ ;  $I_i = 131 \text{ mA}$ ;  $P_i = 983 \text{ mW}$ ;  $C_i \approx 0 \text{ nF}$ ;  $L_i \approx 0 \text{ } \mu\text{H}$

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

1. For electrical and thermal data refer to equipment section.
2. The equipment shall be installed and maintained such that hazards caused by electrostatic discharge are excluded.