



1 **EU TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 06ATEX2161X** Issue: **1**

4 Equipment: **Nivu Compact 3 i.s., 6 i.s. and 10 i.s. Loop Powered Ultrasonic Level Measurement Devices**

5 Applicant: **Nivus GmbH**

6 Address: **Im Tale 2
D-75031 Eppingen
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 50014:1997 plus Amendments 1 and 2 EN 50020:2002 EN 50284:1999

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified 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 G

EEx ia IIC T4 (Tamb = -40°C to +80°C)

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

Project Number 80066900

Signed: J A May

Title: Director of Operations

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



SCHEDULE

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Issue 1**

13 DESCRIPTION OF EQUIPMENT

These ultrasonic level measuring devices are designed as 4-20 mA, loop powered, level measurement sensors that are used in level measurement systems. The sensors in the series differ only in the size of transducer crystal, the Ping board population and the housing. They comprise two printed circuit boards and a piezo electric crystal transducer; these are all housed inside a plastic enclosure and then totally encapsulated. The devices also have an unencapsulated display board and keypad. A terminal block provides the connection facilities to the external circuits. The models included in the range are described as follows:

Nivu Compact 3 i.s. (the numbers 3, 6 and 10 relate
Nivu Compact 6 i.s. to the maximum measurable
Nivu Compact 10 i.s. distance in metres)

The ultrasonic level measuring devices have been assessed with the following input parameters:

Ui = 28 V
Ii = 162 mA
Pi = 1.03 W
Ci = 0
Li = 0

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	26 June 2006	R51A14887A	The release of the prime certificate.
1	21 December 2020	R80066900A	This Issue covers the following changes: <ul style="list-style-type: none"> 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> Transfer of certificate Sira 06ATEX2161X from Sira Certification Service to CSA Group Netherlands B.V..

14.3 Certificate number Sira 06ATEX2014X dated last amended 03/03/06.

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

15.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, when it is used for applications that specifically require group II, Category 1, zone 0, equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

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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 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.
- 17.3 This product shall be uniquely marked with the label identified in section 14.1 of this certificate.
- 17.4 The applicant shall only market those products that may be marked with this certificate number, as identified by the drawings listed in section 14.1 of this certificate.

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Certificate Annexe



Certificate Number: Sira 06ATEX2161X
Equipment: Nivu Compact 3 i.s., 6 i.s. and 10 i.s. Loop
Powered Ultrasonic Level Measurement Devices
Applicant: Nivus GmbH

Issue 0

Drawing No.	Rev.	Sheet	Date	Title
D-804-0697-A	1 of 1	-	26 Jun 06	Nivu Compact i.s. wraparound label detail
D-804-0698-A	1 of 1	-	26 Jun 06	Nivu Compact i.s. Internal Wiring Label

Issue 1 – No new drawings were introduced.

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