



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX4318** Issue: **1**

4 Equipment: **Sitrans LR250 HART Continuous Level Measurement Instrument**

5 Applicant: **Siemens Milltronics Process Instruments Inc.**

6 Address: 1954 Technology Drive  
Peterborough  
Ontario  
Canada  
K9J 7B1

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. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 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 60079-0:2004 EN 60079-15:2005

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 Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. 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 3G  
Ex nA II T4 (Ta = -40°C to +80°C)

Project Number 3169

Signed: 

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

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**Issue 1**

#### 13 DESCRIPTION OF EQUIPMENT

The Sitrans LR250 (HART) is a continuous level measurement instrument. The unit is connected to loop power (4-20 mA), which provides power and communication to and from the device. It comprises an aluminium enclosure with a display window. The enclosure contains six PCBs:

- |                              |   |
|------------------------------|---|
| i. Common module             | iv. High frequency module                             |
| ii. RADAR interface Module   | v. Display module                                     |
| iii. RADAR technology module | vi. Terminal board (also known as the EMC Filter PCB) |

All of the circuitry, except for the display module, terminal board and the RADAR antenna, is encapsulated. The equipment antenna is attached to the base of the enclosure and can either be a 1.5" NPT horn or a 2", 3", 4" flange/horn, all can be with or without the 100 mm extension. The unit can be programmed using an intrinsically safe IR programmer pointed through the display window.

Externally, the equipment consists of two sections, the aluminium enclosure and the radar antenna. The aluminium enclosure is further sub-divided into two parts, the terminal compartment and the electronics housing. The field connections are made inside the terminal compartment, which is accessed via the threaded enclosure cover, and allows electrical connection via two cable/conduit entries to a terminal block. Electrical connection to the remainder of the equipment is through an EMC filter PCB to the main circuit, via bushing located at the base of the terminal housing.

The equipment has the following rating:

Input = 24 Vdc nominal, 30 Vdc maximum, 4-20 mA

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

| Issue | Date                           | Report no. | Comment  |
|-------|--------------------------------|------------|--|
| 0     | 20 <sup>th</sup> December 2007 | R52A17269A | The release of prime certificate.  |
| 1     | 15th October 2019              | 3169       | <ul style="list-style-type: none"><li>• Transfer of certificate Sira 07ATEX4318 from Sira Certification Service to CSA Group Netherlands B.V..</li><li>• Type-Examination Certificate in accordance with 94/9/EC updated to Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, 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</i></li></ul> |

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**SCHEDULE**

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|  |  |  |   |
|--|--|--|---|
|  |  |  | <i>Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i> |
|--|--|--|---|

15 **SPECIAL CONDITIONS FOR SAFE USE**

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.