



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 12ATEX2259X** Issue: **2**

4 Equipment: **CSO Monitor v2**

5 Applicant: **Detectronic Limited**

6 Address: Regent Street
Whitewalls Industrial Estate
Colne
Lancashire BB8 8LJ
UK

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:

IEC 60079-0:2011

IEC 60079-11:2011

EN 60079-26:2006

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 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 1G
Ex ia IIC T4 Ga
Ta = -20°C to + 60°C

Project Number 1967

Signed: 

Title: Director of Operations

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

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 12ATEX2259X
Issue 2**

13 DESCRIPTION OF EQUIPMENT

The CSO Monitor v2 is an ultrasonic level device designed to measure the level of liquids in open or closed vessels in hazardous environments. The equipment comprises an ultrasonic transducer, an interface board and a flying lead for connection to external equipment. All circuitry is encapsulated inside a plastic enclosure.

The equipment has the following entity parameters:

Ui = 30 V Ii = 400 mA Pi = 0.66 W Li = 10 µH Ci = 2 nF
Lo = 45 µH Co - refer to entity parameter of supply

Variation 1 - This variation introduced the following change:

- i. The specification of the enclosure materials was allowed to be more generic.

Variation 2 - This variation introduced the following change:

- i. The Applicants address was changed from 1 Turner Road, Lomeshaye Industrial Estate, Nelson, Lancashire BB9 7DR, to Regent Street, Whitewalls Industrial Estate, Colne, Lancashire BB8 8LJ.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	13 August 2012	R28497A/00	The release of the prime certificatethat includes Variation 1.
1	07 February 2014	R33057A/00	The introduction of Variation 2.
2	15 October 2019	1967	<ul style="list-style-type: none"> • Transfer of certificate Sira 12ATEX2259X from Sira Certification Service to CSA Group Netherlands B.V.. • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (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.)

14.3 Certificate number Sira 12ATEX2007X Issue 1

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 If a charge-generating mechanism is present and this equipment is used in the presence of flammable gases and vapours in apparatus groups IIC and IIB, the metallic connector may store a level of electrostatic charge that could become endive. Therefore the installer and/or user shall implement precautions to prevent the build up of electrostatic charge, for example locating the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present. This is particularly



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 12ATEX2259X
Issue 2**

important if the equipment is installed in a Zone 0 location. In addition the equipment shall only be cleaned with a damp cloth.

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.

Certificate Annexe



Certificate Number: Sira 12ATEX2259X
Equipment: CSO Monitor v2
Applicant: Detectronic Limited

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
CJ95012	1 of 1	A	13 Aug 12	CSO Monitor V2 Label

Issue 1 No new drawings were introduced.

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

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