



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 12.0111X issue No.: 1

Status: Current

Certificate history:
Issue No. 1 (2014-2-26)
Issue No. 0 (2012-8-20)

Date of Issue: 2014-02-26 Page 1 of 4

Applicant: **Detectronic Limited**
Regent Street
Whitewalls Industrial Estate
Colne
Lancashire BB8 8LJ
United Kingdom

Electrical Apparatus: **CSO Monitor v2**
Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: Ex ia IIC T4 Ga
Ta = -20°C to + 60°C

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:
(for printed version)

Date:


2014-02-26

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Detectronic Limited**
Regent Street,
Whitewalls Industrial Estate,
Colne,
Lancashire BB8 8LJ
United Kingdom

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical 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/SIR/ExTR12.0207/00](#)

[GB/SIR/ExTR14.0027/00](#)

Quality Assessment Report:

[GB/SIR/QAR08.0019/02](#)

[GB/SIR/QAR08.0019/03](#)

[GB/SIR/QAR08.0019/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 li = 400 mA Pi = 0.66 W Li = 10 μ H Ci = 2 nF
Lo = 45 μ H Co - refer to entity parameter of supply

Variation 1 - This variation introduced the following change

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

CONDITIONS OF CERTIFICATION: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 – this Issue introduced the following change:	
1.	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.