1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX2042X** Issue: **6**

4 Equipment: **FT202 2-Wire Optic Overfill Sensor**

5 Applicant: **Dixon Bayco**

6 Address: 7280 Union Center Boulevard
West Chester
Ohio 45014
United States of America

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 60079-0:2018 EN 60079-11:2012

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 IIB T4 Ga; Ta = -40°C to +70°C

Project Number 80086275

Signed: J A May

Title: Director of Operations

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Utrechtseweg 310, Building B42,
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PRODUCTS RvA C 652

SCHEDULE

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13 **DESCRIPTION OF EQUIPMENT**

The FT202 2-Wire Optic Overfill Sensor (Type FT202 ** Two Wire Optic Sensor) provides overfill control for both mobile and permanently mounted liquid storage vessels. The FT202 enclosure is cast aluminium with a 2 inch NPT mounting thread, heavy-duty stainless-steel sections, and various seals. The sensors are installed in a 2-inch NPT tapped hole or 2-3/8 inch hole using the gasket and locking nut provided. The sensor contains a single PCB contained within a fully potted cavity and has 2 permanently connected wires.

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The safety description is as follows:

Ui	=	18 V	Ii	=	400 mA
Pi	=	1 W	Ci	=	0 uF
Li	=	0 mH			

Variation 1 - This variation introduced the following changes:

i. A number of changes to various drawings including:
- Part number 10006 changed to 10006D.
- Changes to component values and tolerances of existing resistors in a range of circuits.
- Change of label material.
- Addition of some informative text. This text does not affect compliance with the applied standards.
- A change to a thread dimension on the sensor housing.

ii. The Applicant's address was changed from 4740T Interstate Drive, C innati, Ohio, 45246, USA to that shown on page 1.

Variation 2 - This variation introduced the following change:

i. The corporate logo was added to the label.

Variation 3 - This variation introduced the following change:

i. Drawing Number 10183 has been updated from revision G to revision H, to recognize changing the type of holes from bolt holes to thru holes in the sensor housing.
ii. Product Instructional manual document number 10589 has been updated to latest issue dated 27th of January 2020.The manufacturer documents had been updated accordingly.
iii. The following assessment has been conducted appropriately to demonstrate compliance with the latest technical knowledge, where EN 60079-0:2006 and EN 60079-11:2007 had been replaced by EN 60079-0:2018 and EN 60079-11:2012.
iv. EN 60079-26:2007 and the reference to IEC 60079-0:2007 (used for guidance in respect of marking) had been removed from the certificate. Superseded with the latest versions of the relevant applicable standards.

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v. The Product Name has been amended from FT202 2-Wire Overfill Sensor Probe to FT202 2-Wire Optic Overfill Sensor. The product description has been updated accordingly.
vi. Conditions of Manufacturer had been removed from the affected certificate (Sira 09ATEX2042X) and highlighted in report R80011218A section 1.11.
vii. The manufacturer's address has been updated.

Variation 4 - This variation introduced the following change:

i. Change to how material of sensor housing cap is specified.
ii. Change to how the enclosure seals are described in the product descriptions.
iii. Addition to the product descriptions of the product name as marked on the equipment.
iv. Addition of certification markings to the marking labels that are not related to the ATEX certification.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	20 July 2009	R52A16755H	The release of the prime certificate.
1	21 April 2011	R52A16755H/01	Re issued to allow report R52A16755H/01 to replace R52A16755H
2	19 August 2011	R23939A/00	The introduction of Variation 1.
3	27 April 2015	R70024621A	The introduction of Variation 2.
4	15 October 2019	1653	This Issue covers the following changes: • Transfer of certificate Sira 09ATEX2042X 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.)
5	26 February 2020	R80011218A	The introduction of Variation 3.
6	04 November 2021	R80086275A	The introduction of Variation 4.

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

15.1 As aluminium is used at the accessible surface of this equipment, in the event of rare idents, ignition sources due to impact and friction sparks could occur. This shall be considered, particularly when the FT202 Sensor is being installed in locations that specifically require Group II, Category 1G equipment.

15.2 The assessed enclosure should not be subjected to strong impact that may lead to high risk of mechanical danger.

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 Sira/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 The manufacturer shall test 100% of all manufactured units in accordance with the dielectric strength test in IEC 60079-11:2006 clauses 6.3.12 and 10.3. 500 Vrms shall be applied between the circuit and the metallic enclosure for a minimum of 60 s; the maximum current flowing shall not exceed 5 mA and there shall be no flashover or breakdown.

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Certificate Annexe

Certificate Number: **Sira 09ATEX2042X**

Equipment: **FT202 2-Wire Optic Overfill Sensor**

Applicant: **Dixon Bayco**

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Description
10000	1 of 1	B	17 Mar 09	ASSY, Optic Head
10081_ATEX	1 of 1	A	17 Mar 09	Schematic, Sensor, 2W ROM Type
10082_ATEX	1 of 1	A	17 Mar 09	ASSY, Sensor, 2W ROM Type
10083_ATEX	1 to 2	A	17 Mar 09	PCB, 2W Sensor
10108-ATEX	1 of 1	A	17 Mar 09	ASSY, 2 Wire Sensor
10183	1 of 1	D	17 Mar 09	Sensor Housing (Machining)
10185	1 of 1	A	17 Mar 09	Sensor Housing Cap (Machining)
10583	1 of 1	B	17 Mar 09	ATEX Marking – FT202

Issue 1 - No new drawings were introduced.

Issue 2

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
10000	1 of 1	D	18 Aug 11	Assy, Optic Head
10081_ATEX	1 of 1	C	18 Aug 11	Schematic, Sensor, 2W ROM type
10082_ATEX	1 of 1	C	18 Aug 11	Assy, Sensor, 2W ROM Type
10183	1 of 1	G	18 Aug 11	Sensor housing – sand cast (machining)
10185	1 of 1	B	18 Aug 11	Sensor housing cap (machining)
10583	1 of 1	C	18 Aug 11	Label, 2W Optic Sensor

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
10583	1 of 1	D	02 Apr 15	LABEL, OVERFILL SENSOR FT202 TYPE

Issue 4 – No new drawings were introduced.

Issue 5

Drawing	Sheets	Rev.	Date (Date stamp)	Title
10183	1 of 1	H	28 Jan 20	Sensor Housing - Sand Cast (Machining)
10583	1 of 1	F	28 Jan 20	Label, Overfill Sensor FT202 Type
10589	1 to 2	27 Jan 20	28 Jan 20	Instruction Manual 10589 ATEX Supplemental Instruction Sheet For Sensors FT202

Issue 6

Drawing	Sheets	Rev.	Date (Stamp)	Title
10185	1 of 1	C	08 Oct 21	Sensor Housing Cap (Machining)
10583	1 of 1	G	11 Oct 21	Label, Overfill Sensor FT202 Type
10589	1 to 2	16 Jul 21	11 Oct 21	Instruction Manual 10589 ATEX/UKCA Supplemental Instruction Sheet for Sensors FT202

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