



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

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

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

5 Applicant: **Dixon Bayco**

6 Address: **4690F Interstate Drive
Cincinnati,
Ohio
45246
USA**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2006 EN 60079-11:2007 EN 60079-26:2007
IEC 60079-0:2007 (used for guidance in respect of marking)

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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

P J Walsh
Technical Advisor

Project Number 70024612

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The FT202 2-Wire Optic Sensor provides overflow control for mobile and permanently mounted liquid storage vessels. The FT202 enclosure is cast aluminium with a 2" NPT mounting thread, heavy-duty stainless steel sections, and Viton® seals. The sensors are intended to be 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.

The safety description is as follows:

Ui = 18 V li = 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, Cincinnati, 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira 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.

15 SPECIAL CONDITIONS FOR SAFE 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 incidents, ignition sources due to impact and friction sparks could occur. This shall be considered, particularly when the FT101 Sensor is being installed in locations that specifically require Group II, Category 1G equipment.

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Sira Certification Service

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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 CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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.

Certificate Annexe

Certificate Number: Sira 09ATEX2042X
Equipment: FT202 2-Wire Overfill Sensor Probe
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

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