



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Equipment Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 21UKEX2288X** Issue: **0**

4 Product: **FT151 2-Wire Optic Overfill Sensor**

5 Manufacturer: **Dixon Bayco**

6 Address: **7280 Union Centre Boulevard
West Chester
OH 45014
United States of America**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:



II 1 G
Ex ia IIB T4 Ga
Ta: -40°C to +70°C

Name: James May
Title: Director of Operations



**UKUK
CANI**

CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK
This certificate and its schedules may only be reproduced in its entirety and without change

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DQD544.21 Issue 2 (2021-04-23)

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SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 21UKEX2288X
Issue 0**

13 DESCRIPTION OF PRODUCT

The FT151 2-Wire Optic Overfill Sensor (Type FT151 ** Thermo Optic Sensor) provides overfill control for both mobile and permanently mounted liquid storage vessels. The FT151 enclosure is manufactured from cast aluminium with a 2 inch NPT mounting thread, heavy-duty stainless-steel sections, and various seals. The sensor is 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 manufacturer can supply the user with a new overfill sensor unit that will replace the one in the FT151 5-Wire Overfill Sensor Probe already in their possession. The new sensor unit is designated as equipment name FT150, its construction being the same as the existing sensor unit and it bears an explanatory label that states that it is part of an FT151, Sira 09ATEX2040X.

Ui = 13.7V li = 180mA Pi = 1W Ci = 0µF Li = 2µH

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 November 2021	R80086277A	The release of the prime certificate.

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 ignition sources due to impact and friction sparks could occur in the event of rare incidents. This shall be considered when the FT151 Sensor is being installed, particularly 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 (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders
- 17.2 A routine dielectric strength test of 500V r.m.s. as required by clause 10.3 of EN 60079-11:2012 shall be conducted on each unit. The voltage shall be increased steadily to the specified value in a period of not less than 10 s and then maintained for at least 60 s. The applied voltage shall remain constant during the test. The current flowing during the test shall not exceed 5 mA r.m.s. at any time.



Certificate Annexe

Certificate Number: CSAE 21UKEX2288X
 Product: FT151 2-Wire Optic Overfill Sensor
 Manufacturer: Dixon Bayco

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
10000	1 of 1	D	18 Aug 11	Assy, Optic Head
10085_ATEX	1 of 1	E	18 Aug 11	PCB Assembly Thermo Optic Sensor
10085-48_ATEX	1 of 1	A	25 Jul 14	FT151 OVERFILL SENSOR PCB ASSEMBLY
10085-PP_ATEX	1 of 1	A	25 Jul 14	FT151 OVERFILL SENSOR P/P, PCB ASSEMBLY
10109_ATEX	1 of 1	B	28 Jul 14	ASSY, 2 WIRE SENSOR
10109-PP_ATEX	1 of 1	A	19 Aug 14	ASSY, SENSOR 2 WIRE
10109-PP-7-AX	1 of 1	A	02 Apr 15	ASSY, SENSOR 2 WIRE
10109-PP-12-AX	1 of 1	A	02 Apr 15	ASSY, SENSOR 2 WIRE
10109-PP-18-AX	1 of 1	A	02 Apr 15	ASSY, SENSOR 2 WIRE
10183	1 of 1	H	28 Jan 20	Sensor Housing – Sand Cast (Machining)
10185	1 of 1	C	08 Oct 21	Sensor Housing Cap (Machining)
10245_ATEX	1 of 1	D	18 Aug 11	Sensor, two wire thermos-optic sensor
10246_ATEX	1 of 1	A	17 Mar 09	PCB, Two-wire Thermo-optic Sensor
1058X-001	1 of 1	B	11 Oct 21	Label, replacement overfill sensor
10585	1 of 1	J	11 Oct 21	Label. Overfill Sensor FT151 Type
10588	1 to 2	16 Jul 21	11 Oct 21	Instruction Manual 10588 ATEX/UKCA Supplemental Instruction Sheet for Sensors FT150 and FT151
10619_ATEX	1 of 1	E	25 Jul 14	PROBE PLUG – 2 WIRE
FT151PB-ATEX-7	1 of 1	A	02 Apr 15	PLUG & PLAN THERMO-OPTIC SENSOR (BSPP THD)
FT151PB-ATEX-12	1 of 1	C	30 Jan 17	PLUG & PLAN THERMO-OPTIC SENSOR (BSPP THD)
FT151PB-ATEX-18	1 of 1	C	30 Jan 17	PLUG & PLAN THERMO-OPTIC SENSOR (BSPP THD)

