



EU-TYPE EXAMINATION CERTIFICATE

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2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **Sira 19ATEX1169X** Issue: **5**

4 Equipment: **FT7000 Level Monitor**

5 Manufacturer: **Dixon Bayco**

6 Address: **7280 Union Center Blvd
West Chester
OH 45014
USA**

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 Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II 2(1) G
Ex db ib [ia Ga] IIB T4 Gb
Ta = -20°C to +60°C

Signed: **M Halliwell**
Title: **Senior Director of Operations**
Date: **30 July 2025**



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13

SCHEDULE

14 EU-Type Examination Certificate Number: Sira 19ATEX1169X Issue: 5

15 Description:

The FT7000 is an electronic device for the specific purpose of continuous monitoring of liquid levels and the prevention of electrical grounding while filling of transportable liquid tanks. It consists of a single compartment flameproof enclosure with an external intrinsically safe lighted display board.

Entity Parameters:

Um = 250 V	Uo= 12.6 V	Io= 0.187 A
Po= 0.589 W	Co= 7.4 µF	Lo=9.1 mH

The FT7000 has an internal PCB mounted power supply rated for 110-240 VAC, 50-60 Hz and a maximum power draw of 13 watts. The FT7000 is rated for ambient temperatures from -20°C to +60°C.

The FT7000 enclosure is rectangular, single-compartment, cast metal housing comprised of low copper aluminium alloy (ASTM A356-T6) (which does not contain more than 7.5% magnesium, titanium and zirconium by mass). A portion of the exterior is coated with an epoxy-polyester powder-coating paint.

The overall dimensions of the enclosure are approximately 12.443 inches by 13.130 inches by 4.046 inches (316.04mm by 333.50mm by 102.78mm).

Four 1/2-14 NPT entries are provided for installation to threaded conduit or use with cable glands supplied with each unit.

The following accessories are shipped with the following equipment and are intended for use in the final installation as applicable.

Cable Glands - EXN04ALC2 (KPX-EX), Nickel Plated Brass, manufactured by ABB Installation Products. Ex d IIC Gb; Ex e IIC Gb; Ex tb IIC Db, for use only with unarmoured TC-ER-HL cable and Ex e IIC, for use only with unarmoured TC, TC-ER and TC-ER-HL cable. IP66/IP68. Operating temperature -20°C to 100°C.

Stopping plugs EXN/050/SP 1/2-14 NPT Nickel Plated Brass. By ABB Installation Products. Ex d I Mb Ex d IIC Gb. Operating temperature -20°C to 200°C.

Mounting Hardware:

- (4) M10 x 70mm S.S. threaded bolt.
- (4) M10 S.S. split spring washer.
- (4) M10 S.S hex nut.

Variation 1 - This variation introduced the following changes:

- i. The Applicant's name and address changed from: Dixon Bayco USA Division of DVCC Inc., 4690F Interstate Drive, Cincinnati, OH 45246, USA. to: Dixon Bayco, 7280 Union Center Blvd, West Chester, OH 45014, USA.
- ii. The Notified Body issuing the Quality Assessment Notification (QAN) was changed from Sira Certification Service (0518) to CSA Group Netherlands B.V. (2813), the label marking being updated accordingly.
- iii. Minor modifications to schedule drawings.

Variation 2 - This variation introduced the following changes:

- i. Minor modifications to schedule drawings.
- ii. Upgrade from IP54 to IP66 ratings based on IEC 60529.



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Variation 3 - This variation introduced the following changes:

- i. Minor editorial modifications to schedule drawings.

Variation 4 - This variation introduced the following changes:

- i. Minor editorial modifications to Product Description.

16 Drawings and documents:

16.1 Technical documents:

Refer to Certificate Annex.

16.2 Associated reports and certificate history:

Issue	Date	Report number	Comment
0	24 June 2019	R70216923A	The release of the prime certificate.
1	15 October 2019	4183	Transfer of certificate Sira 19ATEX1169X from Sira Certification Service to CSA Netherlands B.V.
2	24 March 2020	R80035700A	The introduction of Variation 1.
3	22 July 2021	R80054265A	The introduction of Variation 2.
4	06 March 2025	R80232157A	The introduction of Variation 3.
5	30 July 2025	R80260088A	The introduction of Variation 4.

17 Specific conditions of use (denoted by "X" after the certificate number):

17.1 The enclosure is manufactured from low copper aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur.

17.2 Cover bolts:

- a. Property class: C-50
- b. Yield Strength: 70,000 psi (482MPa)
- c. Type: M10 x 1.5 30 mm long SHCS
Fasteners shall only be replaced with identical M10 x 1.5 DIN 912 fasteners

17.3 Instructions are provided with each shipment, identifying proper torque values of 35 lb-ft. (47.5 Nm) for cover bolts.

17.4 Instructions are provided with each shipment, identifying proper torque values of 25 lb-ft. (32 Nm) for conduit stopping plugs / blanking elements and conduit adapter.

17.5 Cross-sectional area of PE conductors must be equal to or greater than the cross-sectional area of phase conductors.

17.6 For installations using cable glands provided with this equipment:

- a. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness.
- b. If necessary, sealing rings have to be replaced with new ones (original spare parts only).
- c. Only EPDM rubber or Silicone sealing rings are permitted for installations with this equipment.
- d. Polyamide dome plug is not permitted for installation with this equipment.

17.7 The supply connection to the FT7000 must be made with rigid metal conduit or armoured cable or other means which provides adequate equipotential bonding of the equipment.

17.8 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall



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not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

18 Essential health and safety requirements of Annex II (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 Remarks and additional information:

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 Conditions of manufacture:

19.1.1 The manufacturer shall inform CSA Group of any modifications to the device that may impinge upon the explosion safety or intrinsically safe design of the Model FT7000.



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Certificate Annexe

Document History

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
10903-ATEX	1 of 1	B	06 Jun 19	FT7000 Power Supply Board PCB
10904-ATEX	1 of 1	B	06 Jun 19	FT7000 Power Supply Board Assembly (Sheets 1 to 4)
10904-BOM-ATEX	1 to 3	B	06 Jun 19	FT7000 Power Supply Board Assembly BOM
10905-ATEX	1 of 1	B	06 Jun 19	FT7000 Rack Monitor Power Board Schematic
10906-ATEX	1 of 1	A	06 Jun 19	FT7000 Logic Board Blank PCB
10906-BOM-ATEX	1 to 2	A	06 Jun 19	FT7000 Logic Board Bill of Material
10907-ATEX	1 to 4	A	06 Jun 19	FT7000 Logic Board Assembly (Sheets 1 to 4)
10908-ATEX	1 of 1	A	06 Jun 19	FT700 Rack Monitor Logic Board
10909-ATEX	1 of 1	B	06 Jun 19	FT7000 Display Board PCB
10910-ATEX	1 of 1	A	06 Jun 19	FT7000 Display Board Assembly (Sheets 1 to 3)
10910-BOM-ATEX	1 to 2	B	06 Jun 19	FT7000 Display Board Assembly BOM
10911-ATEX	1 of 1	D	06 Jun 19	FT7000 Rack Monitor Display Board (Schematic)
10968SS-ATEX	1 of 1	A	06 Jun 19	Cover Bolt
10980-ATEX	1 of 1	B	18 Jun 19	FT7000 Label
10982-ATEX	1 of 1	B	06 Jun 19	Potted Display Cable Assembly
11032AL-ATEX	1 of 1	C	06 Jun 19	Cable Gland (Machine drawing)
11033AP-ATEX	1 to 37	C	20 Jun 19	Maintenance & Operating Instructions for Dixon Bayco FT7000
11039-ATEX	1 to 2	B	06 Jun 19	FT7000 Control Drawing
11041-ATEX	1 of 1	A	06 Jun 19	Lid O-ring
11172-ATEX	1 of 1	A	06 Jun 19	Potted Display Board Assembly
40472AL-ATEX	1 of 1	B	06 Jun 19	Rack Monitor Box (Machining drawing)
40473AL-ATEX	1 of 1	B	06 Jun 19	Rack Monitor Lid (Machining drawing)
40474PL-ATEX	1 of 1	A	06 Jun 19	Rack Monitor, Face Plate
FT7000	1 of 1	A	06 Jun 19	Rack Monitor (Main assembly drawing)
AP1308	1 to 4	A	06 Jun 19	Work Instruction for FT7000

Issue 1 – No new drawings were introduced.

Issue 2

Drawing	Sheets	Rev.	Date (Stamped)	Title
10980-ATEX	1 of 1	E	16 Mar 20	FT7000 Label
11033PA-ATEX	1 to 37	E	16 Mar 20	Maintenance & Operation Instructions for Dixon Bayco FT7000

Issue 3.

Drawing	Sheets	Rev.	Date (Stamped)	Description
10904-ATEX	1 of 1	C	09 Dec 20	FT7000 Power Supply Board Assembly (Sheets 1 to 4)
10904-BOM-ATEX	1 to 3	C	09 Dec 20	FT7000 Power Supply Board Assembly BOM
10905-ATEX	1 of 1	C	09 Dec 20	FT7000 Rack Monitor Power Board Schematic
10907-ATEX	1 to 1	B	09 Dec 20	FT7000 Logic Board Assembly (Sheets 1 to 4)
*10907-BOM-ATEX	1 to 6	B	09 Dec 20	FT7000 LOGIC BOARD BOM
10908-ATEX	1 of 1	B	09 Dec 20	FT700 Rack Monitor Logic Board
10980-ATEX	1 of 1	F	09 Dec 20	FT7000 LABEL
11033PA-ATEX	1 to 37	F	14 Jul 20	Maintenance & Operating Instructions for Dixon Bayco FT7000

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Drawing	Sheets	Rev.	Date (Stamped)	Description
40472AL-ATEX	1 of 1	C	09 Dec 20	Rack Monitor Box (Machining drawing)
40473AL-ATEX	1 of 1	C	09 Dec 20	Rack Monitor Lid (Machining drawing)
FT7000	1 of 1	B	09 Dec 20	Rack Monitor (Main assembly drawing)

Issue 4

Drawing	Sheets	Rev.	Date (Stamp)	Title
11033PA-ATEX	1 to 39	H	03 Feb 25	Maintenance & Operating Instructions for Dixon Bayco FT7000
11039-ATEX	1 to 2	C	03 Feb 25	FT7000 Control Drawing
10980-ATEX	1 to 1	H	03 Feb 25	FT7000 Label

Issue 5 – No new drawings were introduced.