



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 14ATEX2260X** Issue: **1**

4 Equipment: **Thermistor Dummy Model FT155**

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 60079-0:2012

EN 60079-11:2012

EN 60079-26:2006

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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

Project Number 70024621

P J Walsh
Technical Advisor

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 14ATEX2260X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The Thermistor Dummy FT155 is a part of the Overfill Detection System used for monitoring the filling of a petroleum tank truck at an oil company filling gantry. The Thermistor Dummy FT155 is used to emulate the electrical signal from a FT151 2-Wire Overfill Sensor Probe (Sira 09ATEX2040X). It is supplied with six, 6" wires and is mounted in a socket housing located on the frame of the petroleum tank truck. It has the ability to emulate five, separate, Overfill Sensors. The electronics are mounted in a PCB and are fully encapsulated. This equipment consists of a plastic enclosure which is in the form of a cup filled with potting material and the potting material is exposed on the top from which six wires emerge out.

The equipment has the following entity parameters:

Ui = 13.7 V Pi = 1 W li = 400 mA Ci = 0 Li = 0

Variation 1 - This variation introduced the following change:

- i. The vertical dimension of the label was reduced from 1.600" to 1.300".

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	16 January 2015	R70009682A	The release of the prime certificate.
1	27 April 2015	R70024621A	The introduction of Variation 1.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 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 not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. 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. This is particularly important if the equipment is installed in a zone 0 location.
- 15.2 The enclosure is capable of withstanding only low level (4J) of mechanical impact and hence additional protection shall be provided to ensure equipment is not subjected to higher level mechanical impact.

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.

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Sira Certification Service

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Certificate Annexe

Certificate Number: Sira 14ATEX2260X
Equipment: Thermistor Dummy Model FT155
Applicant: Dixon Bayco



Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
10478_ATEX	1 of 1	A	26-Nov-14	Thermistor Dummy Schematic
10480_ATEX	1 of 1	A	26-Nov-14	Thermistor Dummy PCB Assembly
10782_ATEX	1 of 1	B	12-Jan-15	Thermistor Dummy Sub Assembly
10205_ATEX	1 of 1	A	26-Nov-14	Thermistor Dummy Label
10479_ATEX	1 of 1	A	26-Nov-14	Thermistor PCB
10831	1 to 2	Nov 2014	26-Nov-14	ATEX Supplemental Instruction Sheet

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
10205_ATEX	1 of 1	D	14-Apr-15	Thermistor Dummy Label
10831	1 to 2	01-Mar-15	15-Apr-15	ATEX Supplemental Instruction Sheet

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