



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIR 14.0100X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 2 [Issue 1 \(2015-05-06\)](#)
Date of Issue: 2020-02-26 [Issue 0 \(2015-01-21\)](#)
Applicant: **Dixon Bayco**
7280 Union Center Boulevard
West Chester
OH 45014
United States of America
Equipment: **Thermistor Dummy Model FT155**
Optional accessory:
Type of Protection: **Intrinsically Safe "ia"**
Marking: Ex ia IIB T4 Ga
Ta = -40°C to +70°C

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Date of issue: 2020-02-26

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Manufacturer: **Dixon Bayco**
7280 Union Center Boulevard
West Chester
OH 45014
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/SIR/ExTR15.0019/00](#)

[GB/SIR/ExTR15.0119/00](#)

[GB/SIR/ExTR20.0026/00](#)

Quality Assessment Report:

[GB/SIR/QAR09.0010/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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/IECEX SIR 09.0013X). 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 emerges out.

The equipment has the following entity parameters:

$U_i = 13.7\text{ V}$ $P_i = 1\text{ W}$ $I_i = 400\text{ mA}$ $C_i = 0$ $L_i = 0$

SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following change:

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

Issue 2 – this Issue introduced the following change:

1. Product Instructional manual document number 10831 has been updated to latest issue dated 27th of January 2020 to update notes number 11, 12, 13 and removed number 14. The manufacturer documents had been updated accordingly.
2. The following assessment has been conducted appropriately to demonstrate compliance with the latest technical knowledge, where IEC 60079-0:2011 Edition 6 and had been replaced by IEC 60079-0:2017 Edition 7.
3. IEC 60079-26:2006 Edition 2 had been removed from the certificate. Superseded with the latest versions of the relevant applicable standards.
4. The manufacturer's address has been updated.