



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 21UKEX2221X** Issue: **0**

4 Product: **Thermistor Dummy Model FT155**

5 Manufacturer: **Dixon Bayco**

6 Address: **7280 Union Center 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 1G
Ex ia IIB T4 Ga
Ta = -40°C to +70°C

Name: J A May
Title: Director of Operations



**UK UK
CANI**

Certificate No. CSAE21UKEX2221X
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

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

Page 1 of 2

SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 21UKEX2221X
Issue 0**

13 DESCRIPTION OF PRODUCT

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 (CSAE 21UKEX2287X) 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:

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

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	06 August 2021	R80086273A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF 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 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



Certificate Annexe

Certificate Number: CSAE 21UKEX2221X
Product: Thermistor Dummy Model FT155
Manufacturer: Dixon Bayco

Issue 0

Drawing no.	Sheets	Rev.	Date (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
10479_ATEX	1 of 1	A	26 Nov 14	Thermistor PCB
10831	1 to 2	July 16, 21	23 Jul 21	ATEX / UKCA Supplemental Instruction Sheet
10205_ATEX	1 of 1	E	06 Jul 21	FT155 Thermistor Dummy Label

