



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 23UKEX1092X** Issue: **0**

4 Product: **Gas Detector Models: OxyTx, ToxTx, FlamTx, CO2Tx**

5 Manufacturer: **Ntron Ltd.**

6 Address: **Mullaghboy Industrial Estate
Navan
Country Meath
Ireland
C15 XD61**

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 60079-1:2014 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:

Infrared and Flammable Sensors



II 2 G
Ex db ia IIC T4 Gb
(-20°C ≤ Ta ≤ +60°C)

O₂ and Toxic Sensors



II 2 G
Ex ia IIC T4 Gb
(-20°C ≤ Ta ≤ +60°C)

Name: M Halliwell

Title: Director of Operations



Certificate No. CSAE 23UKEX1092X
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

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QD-1599 Issue 4 (2022-08-22)

SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 23UKEX1092X
Issue 0**

13 DESCRIPTION OF PRODUCT

The OxyTx, ToxTx, FlamTx and CO2Tx are fixed gas detectors designed to monitor the concentration of gas (Oxygen, Toxic, Flammable or CO2) in the surrounding atmosphere and provide an optional LCD display, and a proportional 4-20mA signal.

The above model numbers are used for the Detector with an LCD display with an externally mounted gas sensor or for the Detector with an integral gas sensor. The detector comprises electronic circuits and an optional LCD display mounted on printed circuit boards, a terminal block, and an LED, all contained in an enclosure providing a degree of protection of at least IP20.

A Gas Sensor to Certificate SIRA11ATEX1072X, SIRA04ATEX1357U or FTZU14ATEX0213U is mounted on the external surface of the enclosure, or up to 10m away at the end of a length of cable.

Input Parameters:

For Terminals SIG and 0: $U_i = 30V$, $I_i = 150mA$, $P_i = 0.81W$, $C_i = 10nF$, $L_i = 0$

For Terminals + and 0: $U_i = 7.5V$, $I_i = 750mA$, $P_i = 1.4W$, $C_i = 9.7\mu F$, $L_i = 0$

The gas to be monitored is shown on a label on the instrument case.

The apparatus is not designed for use in oxygen enriched atmospheres.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	25 July 2023	R80164978A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 Potential electrostatic charging hazard – see instructions for guidance.

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 The equipment covered by this certificate incorporates previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA of any modifications of the devices that may impinge upon the explosion safety design of their products. They shall also provide the end user with the appropriate certification documents.



SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 23UKEX1092X
Issue 0**

Description	Certificate Number
Gas Sensors type MSH2*** and MSH2ia***	FTZU 14ATEX0213U
Type MSH*** and MSH-P*** Gas Sensors	Sira 04ATEX1357U
Gas Sensor Type GSH4	Sira 11ATEX1072X



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Certificate Annexe

Certificate Number: CSAE 23UKEX1092X
Product: Gas Detector Models: OxyTx, ToxTx, FlamTx, CO2Tx
Manufacturer: Ntron Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
MD054	1 of 1	9	13 Jul 23	OxyTx Oxygen Gas Detector Transmitter
MD119	1 of 1	9	13 Jul 23	FlamTx Flammable Gas Detector Transmitter
MD119-1	1 of 1	1	13 Jul 23	CO2Tx Gas Detector Transmitter
MD120	1 of 1	9	13 Jul 23	ToxTx Gas Detector Transmitter



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