



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 23ATEX1117X** Issue: **0**

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

5 Applicant: **Ntron Ltd.**

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

7 This equipment 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 number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 IEC 60079-0:2018 EN 60079-1:2014 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:

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)



Signed: M Halliwell

Title: Director of Operations

Project Number 80164978

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1117X
Issue 0

13 DESCRIPTION OF EQUIPMENT

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 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 MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

Project Number 80164978

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1117X

Issue 0

- 17.3 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.

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

Project Number 80164978

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

Certificate Annexe



Certificate Number: CSANe 23ATEX1117X

Equipment: Gas Detector Models: OxyTx, ToxTx, FlamTx, CO2Tx

Applicant: 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

Project Number 80164978

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands