



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **KIWA 18ATEX0029X** Issue: **2**

4 Equipment: **Gas Detector Type ST480xi**

5 Applicant: **Consilium Safety Netherlands B.V.**

6 Address: **Zuidpool 9
2801 RW Gouda
The Netherlands**

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 EN 60079-31: 2014

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:

Compact version / Remote Sensor version



II 2 G Ex db ia IIC T4 Gb
II 2 D Ex ia tb IIIC T135 °C Db
Tamb = -20°C to +60°C

Remote Transmitter version



II 2 G Ex db IIC T4 Gb
II 2 D Ex tb IIIC T135 °C Db
Tamb = -20°C to +60°C



Signed: M Halliwell

Title: Director of Operations

Project Number 80106985

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

KIWA 18ATEX0029X
Issue 2

13 DESCRIPTION OF EQUIPMENT

The Gas Detector, type ST480xi, is used for the detection of combustible and/or toxic gases and oxygen. It consists of an aluminium or stainless-steel enclosure and a stainless-steel gas sensor. The enclosure can be provided with a blind or windowed cover.

The gas detector is available as a compact version with sensor (simple apparatus) and electronics in one flameproof enclosure and as a remote version where the sensor and transmitter are mounted in separate flameproof enclosures and connected with a cable.

Ambient temperature range -20 °C to +60 °C.

The Gas detector shall be used with the following Ex db and Ex tb certified enclosures:

Type	Certificate No.
XD-I or XD-ILwin	FTZU 03ATEX0207 U
XD-SI or XD-SILwin	FTZU 07ATEX0002 U

Electrical data

Non-intrinsically safe input (connector CON1)

Power Supply: 18 ~ 30Vdc – Pmax 2.2W (Um = 250Vac)

Variation 1 - This variation introduced the following changes:

- i. To permit an optional internal configuration which includes an isolator PCB and revised main PCB where Pmax increases to 2.2W, when manufactured using the XD-ILwin enclosure covered by the certificate FTZU 03 ATEX 0207U, or the XD-SILwin enclosure covered by the certificate FTZU 07 ATEX 0002U.
- ii. To remove from certification the option to use the XD-S120 / XD-S120win enclosures as covered by the certificate KBD 13ATEX0012 U, the XD-120L or XD-120Lwin enclosures as covered by the certificate FTZU 08ATEX0181 U and the and the GUB-OV enclosure as covered by the certificate CESI 01ATEX034 U.
- iii. To allow for a change of company name.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
1	18 June 2019	180900076	The release of the prime certificate.
2	13 October 2022	R80106984A	The introduction of Variation 1.

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

15.1 Suitable measures shall be taken to prevent electrostatic charge of the adhesive labels.

15.2 For details on the dimensions of the flameproof joints the manufacturer shall be contacted.

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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.

Certificate Annexe



Certificate Number: KIWA 18ATEX0029X
Equipment: Gas Detector Type ST480xi
Applicant: Consilium Safety Netherlands B.V.

Issue 1 – Refer to the report stated in section 14.2.

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
ST480xi Descriptive document	1 to 14	2.02	22 Sep 22	ST480xi Descriptive document
ST480xi Concept assembly drawing	1 to 2	2.1	21 Sep 22	ST480xi Concept assembly drawing
ST480xi Volume Drawing XD-ILwin	1 of 1	1.01	21 Sep 22	ST480xi Volume Drawing XD-ILwin
ST480xi Volume Drawing XD-SILwin	1 of 1	1.02	21 Sep 22	ST480xi Volume Drawing XD-SILwin
User manual and technical information ST480xi / ST150xi	1 to 44	Version 1.04. June 2022	21 Sep 22	User manual and technical information ST480xi / ST150xi
ST480-Main (Schematics)	1 to 5	A2	21 Sep 22	ST480-Main Doc-006453
ST480-Main (BOM)	1 to 4	A2	21 Sep 22	ST480-Main (PNR 004708)

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