



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 22UKEX1321X** Issue: **0**

4 Product: **Gas Detector Type ST480xi**

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

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

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 EN 60079-31:2014

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:

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

Name: Michelle Halliwell

Title: Director of Operations



Certificate No. CSAE 22UKEX1321X
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

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13 DESCRIPTION OF PRODUCT

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)

The product description includes the following applicable amendments, only amendments directly applicable to UKCA certification have been included in this list.

The amendments are numbered to include a reference to the previous ATEX variation at which these were introduced.

- 2a 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
- 2b 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	13 October 2022	R80106983A	The release of the prime certificate.

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.



SCHEDULE

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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



**UK UK
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Certificate Annexe

Certificate Number: CSAE 22UKEX1321X
 Product: Gas Detector Type ST480xi
 Manufacturer: Consilium Safety Netherlands B.V.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
ST480xi_IS-Barrier_Description	1 to 15	A7.1	24 Dec 18	ST480xi_IS-Barrier_Description
ST480xi_Concept_Assembly drawing	1 to 2	V2.1	21 Sep 22	ST480xi_Concept_Assembly drawing
ST480xi_IS-Barrier_BOM	1 of 1	A7_V5.1	29 Jun 18	ST480xi_IS-Barrier_BOM
ST480xi_IS-Barrier_BOM	1 of 1	A7_V5.6	29 Jun 18	ST480xi_IS-Barrier_BOM
ST480xi_IS-Barrier_Schemes	1 of 1	A7	29 Jun 18	ST480xi_IS-Barrier_Schemes
ST480xi_IS-Barrier_Gerbers	1 to 4	A7	29 Jun 18	ST480xi_IS-Barrier_Gerbers
ESDcover480 - Wall thickness	1 of 1	-	11 Jun 19	ESDcover480 - Wall thickness
ST480xi_enclosure_dimensions	1 of 1	V1.0	23 Aug 18	ST480xi_enclosure_dimensions
ST480xi_enclosure_Limatherm	1 of 1	V1.1	05 Oct 18	ST480xi_enclosure_Limatherm
ST480xi_enclosure_Limatherm remote	1 of 1	V1.1	27 Sep 18	ST480xi_enclosure_Limatherm remote
ST480xi_Transmitter-cap	1 to 2	V2.6	04 Sep 18	ST480xi_Transmitter-cap
ST480xi_TCP-assembly_Potting_PCB-type	1 of 1	V1.0	27 Sep 18	ST480xi_TCP-assembly_Potting_PCB-type
ST480xi_TCP-assembly_Potting_solid-type	1 of 1	V1.0	27 Sep 18	ST480xi_TCP-assembly_Potting_solid-type
ST480xi_Ductkit_assembly	1 of 1	V0.02	21 Dec 18	ST480xi_Ductkit_assembly
ST450EC_Main_BOM	1 to 4	A3	12 Mar 18	ST450EC_Main_BOM
DOC-002751	1 to 5	B	12 Mar 18	ST450EC_Main_Schemes
ST450EC_Touch_BOM	1 of 1	A2	12 Feb 18	ST450EC_Touch_BOM
DOC-002754	1 of 1	B	12 Feb 18	ST450EC_Touch_Schemes
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
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)
ST480xi Description Document	1 to 14	2.04	06 Oct 22	ST480xi Description Document
User manual and technical information ST480xi / ST150xi	1 to 44	Version 1.06. October 2022	07 Oct 22	User manual and technical information ST480xi / ST150xi

