1 **UNITED KINGDOM CONFORMITY CERTIFICATE**

UK TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 Certificate Number: **CSAE 21UKEX1558X** Issue: **2**

4 Equipment: **GNEx Series Sounder/Loudspeaker**

5 Manufacturer: **European Safety System Limited**

6 Address: Impress House
Mansell Road
Acton
London W3 7QH
UK

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 item 16.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the technical design 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 the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):

Ex
II 2G
Ex db II* T* Gb
Ta = -*°C to +*°C
* Refer to the schedule

Signed: **M Halliwell**
Title: Senior Director of Operations
Date 07 November 2025

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13 # SCHEDULE

14 **UK Type Examination Certificate Number:** **CSAE 21UKEX1558X** Issue: **2**

15 **Description:**

The GNEx Series Sounder/Loudspeaker consists of a GRP, flameproof enclosure which contains a pressure unit that generates sound, control circuitry and terminals for connection to external circuits. The enclosure has a pressed metal wire element which is cemented into the enclosure for the transmission of sound from the enclosure. The enclosure has a threaded lid for access and cable entry is via up to two, M20 x 1.5 threaded entries. Internal earthing facilities are provided, additionally an external earthing facility is provided.

The equipment has the following gas groups, temperature classes and ambient temperature ranges which are dependent upon the routine pressure test applied.

*Temperature class, gas group and ambient temperature range is indicated in the table below:

Type (Description)	Option (Rating)	Gas group	Temp. class	Ambient temp.
GNExS1R GNExS1F Sounder	GNExS1RDC024-A (10 – 60Vdc) GNExS1RDC024-S (20 – 28Vdc) GNExS1FDC024-A (10 – 60Vdc) GNExS1FDC024-S (20 – 28Vdc) GNExS1RAC230-A (100 – 260Vac) GNExS1FAC230-A (100 – 260Vac)	IIC	T4	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIC	T3	-20°C to +70°C -50°C to +70°C -60°C to +70°C
		IIB	T6	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIB	T5	-20°C to +65°C -50°C to +65°C -60°C to +65°C
		IIB	T4	-20°C to +70°C -50°C to +70°C -60°C to +70°C
GNExS2R GNExS2F GNExS2H Sounder	GNExS2RDC024-A (10 – 60Vdc) GNExS2RDC024-S (20 – 28Vdc) GNExS2FDC024-A (10 – 60Vdc) GNExS2FDC024-S (20 – 28Vdc) GNExS2HDC024-A (10 – 60Vdc) GNExS2HDC024-S (20 – 28Vdc) GNExS2RAC230-A (100 – 260Vac) GNExS2FAC230-A (100 – 260Vac) GNExS2HAC230-A (100 – 260Vac)	IIC	T4	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIC	T3	-20°C to +58°C -50°C to +58°C -60°C to +58°C
		IIB	T6	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIB	T5	-20°C to +58°C -50°C to +58°C -60°C to +58°C
GNExL1R GNExL1F Loudspeaker	GNExL1RV100 (100/70V Line) GNExL1FV100 (100/70V Line) GNExL1RR016 (16 Ohm) GNExL1FR016 (16 Ohm) GNExL1RR008 (8 Ohm) GNExL1FR008 (8 Ohm)	IIC	T4	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIC	T3	-20°C to +70°C -50°C to +70°C -60°C to +70°C

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Type (Description)	Option (Rating)	Gas group	Temp. class	Ambient temp.
		IIB	T6	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIB	T5	-20°C to +65°C -50°C to +65°C -60°C to +65°C
		IIB	T4	-20°C to +70°C -50°C to +70°C -60°C to +70°C
GNExL2R GNExL2F GNExL2H Loudspeaker	GNExL2RV100 (100/70V Line) GNExL2FV100 (100/70V Line) GNExL2HV100 (100/70V Line) GNExL2RR016 (16 Ohm) GNExL2FR016 (16 Ohm) GNExL2HR016 (16 Ohm) GNExL2RR008 (8 Ohm) GNExL2FR008 (8 Ohm) GNExL2HR008 (8 Ohm)	IIC	T4	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIC	T3	-20°C to +65°C -50°C to +65°C -60°C to +65°C
		IIB	T6	-20°C to +50°C -50°C to +50°C -60°C to +50°C
		IIB	T5	-20°C to +65°C -50°C to +65°C -60°C to +65°C

Incorporated amendments

The product description includes the following applicable amendments from the previous supporting assessments. The amendments are numbered to include a reference to the variation at which these were introduced.

Amendment 1 – This variation introduced the following changes:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012 was replaced by EN IEC 60079-0:2018 and EN 60079-1:2007 was replaced by EN 60079-1 :2014 A/C:2018.
ii. Re-introduction of the Conditions of Manufacture which were deleted from the previous Certificate issue.

Amendment 2 - This variation introduced the following change:

i. Transfer of certificate 13ATEX1139X the Notified Body Sira Certification Services to the Notified Body CSA Group Netherlands B.V.

Variation 1 - This variation introduced the following changes:

i. To allow a revised PCBA design including revision of electrical ratings.
ii. To allow an optional SIL diagnostics board including revision of electrical ratings.
iii. To allow the introduction of alternative horn types.
iv. To remove the 48Vdc sounder.
v. To update the specific conditions of use and production control.

Variation 2 - This variation introduced the following changes:

i. To allow a change of cementing material.

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16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	27 June 2022	R80072291G	The release of the prime certificate.
1	26 June 2025	R80216198A	The introduction of Variation 1.
2	07 November 2025	R80255729A	The introduction of Variation 2.

17 **Specific conditions of use** (denoted by "X" after the certificate number):

17.1 The enclosure is non-conducting and, under certain extreme conditions, may generate an ignition-capable level of electrostatic charges. The user shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

17.2 Flameproof joints, General requirements - joints shall not be repaired or modified in any way.

18 **Essential health and safety requirements** (Regulations Schedule 1):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Testing UK certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

19.1.1 Each enclosure shall be subjected to a routine overpressure test at a pressure as detailed on drawing number D157-99-001-SC, with respect to the lower ambient temperature rating of the equipment. The routine pressure test shall be applied for at least 10 seconds as required by EN 60079-1:2014 + AC:2018 clause 16.1. There shall be no permanent deformation or damage to the enclosure and there shall be no leakage through the enclosure wall.

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Certificate Annexe

Document History

Issue 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
D2428	1 of 1	A	19 Jul 13	Pressed Metal Wire Element
D157-99-001-SC-UK	1 of 1	1	05 May 22	GNExS2 and GNExS1 Ex 'd' SOUNDER PRODUCT LABEL – UKEx
D157-00-001-IS-SC-UK	1 to 3	1	05 May 22	GNEx Sounder/Loudspeaker Instructions Declarations

Issue 1

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
D157-99-001-SC	1 of 1	5	11 Jun 25	GNExS2 and GNExS1 Ex 'd' SOUNDER GNExL1 and GNExL2 PRODUCT LABEL
D157-00-001-SC	1 to 2	D	09 Jun 25	GNExS1 & S2 SOUNDERS UNITS & GNEXL1 & L2 LOUDSPEAKER UNITS

Issue 2

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
D157-00-001-SC	1 to 2	E	03 Oct 25	GNExS110 & S120 Sounder

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