1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 13ATEX1139X** Issue: **3**

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

5 Applicant: **European Safety Systems Ltd.**

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

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 A/C:2018

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:

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

Signed: M Halliwell

Title: Senior Director of Operations

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13 **DESCRIPTION OF EQUIPMENT**

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

Variation 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.

Variation 2 - 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 correct a typographical error in the applicant address.
vi. To update the specific conditions of use and conditions of manufacture.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 **Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	06 August 2013	R26592A/00	The release of the prime certificate.
1	15 October 2019	2053	This Issue covers the following changes: • Transfer of certificate Sira 13ATEX1139X from Sira Certification Service to CSA Group Netherlands B.V. • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)*
2	08 July 2020	R80044156A	The introduction of Variation 1.
3	26 June 2025	R80216198A	The introduction of Variation 2.

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

15.1 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.

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

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.

17.3 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.

Certificate Annexe

Certificate Number: **Sira 13ATEX1139X**

Equipment: **GNEx series Sounder/Loudspeaker**

Applicant: **European Safety Systems Ltd.**

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D157-00-001-SC	1 to 2	C	19 Jul 13	GNExS110 & S120 Sounder
D157-99-001-SC	1 of 1	3	06 Aug 13	GNExS2 and GNExS1 Ex 'd' Sounder Product label
D2428	1 of 1	A	19 Jul 13	Pressed Metal Wire Element

Issue 1 - No new drawings were introduced.

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D157-99-001-SC	1 of 1	4	24 Jun 20	GNExS2 and GNExS1 Ex d Sounder Product Label

Issue 3

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