



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 13ATEX1139X** Issue: **0**

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

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

6 Address: Inpress House
Mansell Road
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 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2012

EN 60079-1:2007

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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 d II* T* Gb

* Refer to the schedule

Project Number 26592

C. Ellaby
Deputy Certification Manager

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SCHEDULE

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Sira 13ATEX1139X

Issue 0

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 external earthing facilities may be provided.

The equipment has the following gas groups, temperature classes and ambient temperature ranges:

Type (Description)	Option (Rating)	Gas group	Temp. class	Ambient temp.
GNExS1***** (110 dB Small Sounder)	GNExS1DC024 (10 – 30 V dc) GNExS1DC048 (48 V dc) GNExS1AC230 (100 – 260 V ac/dc)	IIC	T4	-XX°C to +50°C
		IIC	T3	-XX°C to +70°C
		IIB	T6	-XX°C to +50°C
		IIB	T5	-XX°C to +65°C
		IIB	T4	-XX°C to +70°C
GNExS2***** (117 dB Small Sounder)	GNExS2DC024 (10 – 30 V dc) GNExS2DC048 (48 V dc) GNExS2AC230 (100 – 260 V ac)	IIC	T4	-XX°C to +50°C
		IIC	T3	-XX°C to +58°C
		IIB	T6	-XX°C to +50°C
		IIB	T5	-XX°C to +58°C
GNExL1**** (15 W Loudspeaker)	GNExL1V100 (100/70 V Line) GNExL1R016 (16 Ohm) GNExL1R008 (8 Ohm)	IIC	T4	-XX°C to +50°C
		IIC	T3	-XX°C to +70°C
		IIB	T6	-XX°C to +50°C
		IIB	T5	-XX°C to +65°C
		IIB	T4	-XX°C to +70°C
GNExL2**** (25 W Loudspeaker)	GNExL2V100 (100/70 V Line) GNExL2R016 (16 Ohm) GNExL2R008 (8 Ohm)	IIC	T4	-XX°C to +50°C
		IIC	T3	-XX°C to +65°C
		IIB	T6	-XX°C to +50°C
		IIB	T5	-XX°C to +65°C

The equipment may be marked for a low ambient of either -20°C, -50°C or -60°C dependent upon the routine pressure test applied.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	06 August 2013	R26592A/00	The release of the prime certificate.

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- 15 **SPECIAL CONDITIONS FOR SAFE 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.
- 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 CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 Each enclosure shall be subjected to a routine overpressure test at a pressure as detailed on drawing number D157-99-001-SC. The pressure shall be applied for at least 10 seconds as required by EN/IEC 60079-1:2007 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

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

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