IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 13.0029X issue No.:0 Certificate history:

Status: **Draft**

Date of Issue: **2013-02-13** Page 1 of 4

Applicant: **European Safety Systems Ltd.**
Inpress House
Mansell Road
London W3 7QH
United Kingdom

Electrical Apparatus: **GNEx Series Sounder/Loudspeaker**
Optional accessory:

Type of Protection: **Flameproof**

Marking: Ex d II* T* Gb
* Refer to the description

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

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Manufacturer: **European Safety Systems Ltd.**
Inpress House
Mansell Road
London W3 7QH
United Kingdom

Additional Manufacturing location (s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded ir

Test Report:
GB/SIR/ExTR13.0217/00

Quality Assessment Report:

GB/SIR/QAR06.0020/03

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

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. Both internal and external earthing facilities are provided.

Condition of manufacture
The Manufacturer shall comply with the following:

1. Each enclosure shall be subjected to a routine overpressure test of at least 23.05 bar for at least 10 seconds as required by 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

CONDITIONS OF CERTIFICATION: YES as shown below:

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.

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EQUIPMENT(continued):

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	-60°C to +50°C
		IIC	T3	-60°C to +70°C
		IIB	T6	-60°C to +50°C
		IIB	T5	-60°C to +65°C
		IIB	T4	-60°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	-60°C to +50°C
		IIC	T3	-60°C to +58°C
		IIB	T6	-60°C to +50°C
		IIB	T5	-60°C to +58°C
GNExL1**** (15 W Loudspeaker)	GNExL1V100 (100/70 V Line) GNExL1R016 (16 Ohm) GNExL1R008 (8 Ohm)	IIC	T4	-60°C to +50°C
		IIC	T3	-60°C to +70°C
		IIB	T6	-60°C to +50°C
		IIB	T5	-60°C to +65°C
		IIB	T4	-60°C to +70°C
GNExL2**** (25 W Loudspeaker)	GNExL2V100 (100/70 V Line) GNExL2R016 (16 Ohm) GNExL2R008 (8 Ohm)	IIC	T4	-60°C to +50°C
		IIC	T3	-60°C to +65°C
		IIB	T6	-60°C to +50°C
		IIB	T5	-60°C to +65°C