



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX2137** Issue: **0**

4 Equipment: **IS-pA1 Panel Mount Sounder**

5 Applicant: **European Safety Systems Limited**

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 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 60079-0:2006 EN 60079-11:2007 EN 60079-26:2007
EN 60079-0:2009 (for guidance on marking)

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 1G
Ex ia IIB T4/5/6 Ga
Ta = -40°C <= Ta <= +60°C

Project Number 20909
C. Index 13

D R Stubbings BA MIET
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX2137
Issue 0

13 DESCRIPTION OF EQUIPMENT

The equipment is an audio sounder that is intended to be panel mounted. It consists of a plastic enclosure containing a part encapsulated printed circuit board assembly and a sounder device. The back wall of the equipment enclosure is formed from the free surface of the encapsulation. External connections are made via spade terminals that emerge from the encapsulation. The equipment enclosure/encapsulation provides IP 20 ingress protection to the internal circuits.

The equipment has the following intrinsic safety parameters:

$U_i = 40V$
 $I_i = 660mA$
 $P_i = 300mW$ for Temperature Class T6
 $P_i = 600mW$ for Temperature Class T5
 $P_i = 1.3W$ for Temperature Class T4
 $C_i = 32.5nF$
 $L_i = 0$

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	16 Jun 10	R20909A/00	The release of prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 None

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.

Certificate Annexe

Certificate Number: Sira 10ATEX2137
Equipment: IS-pA1 Panel Mount Sounder
Applicant: European Safety Systems Limited



Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D160-00-001-SC	1 of 1	A	10 Jun 10	IS-pA1 Panel Mount Sounder Basic Assembly Drawing
D160-20-001-SC	1 of 1	A	10 Jun 10	IS-pA1 Panel Mount Sounder PCB Layout Drawing
D160-28-001-CD-SC	1 of 1	A	08 Jun 10	IS-pA1 Panel Mount Sounder Block Diagram
D160-99-001-SC	1 of 1	A	08 Jun 10	IS-pA1 Panel Mount Sounder Label Drawing

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