



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 04ATEX2177

4 Equipment: IRIS EMU model R8071

5 Applicant: Scott Health and Safety Ltd

6 Address: Pimbo Road  
West Pimbo  
Skelmersdale  
WN8 9RA  
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 confidential report number R52A10919A.

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 50014:1997 (including Amendments A1 to A2)  
EN 50020:2002  
EN 50284:1999

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:

Without radio:



II 1G  
EEx ia IIC T4; T<sub>a</sub> -30°C to +60°C

With radio:



II 2G  
EEx ib IIC T4; T<sub>a</sub> -20°C to +40°C

M D Shearman  
General Manager

Project Number 52A10919  
Date 8 September 2005  
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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 04ATEX2177

#### 13 DESCRIPTION OF EQUIPMENT

The IRIS EMU model R8071 is a breathing apparatus alarm and monitoring device with an optional two-way radio telemetry module. It is powered from two Ultralife U9VL-J PP3 Li/MnO<sub>2</sub> batteries and the only connection to an external electrical device is at the dataport. This connection has the following safety description:

$U_i$	=	10 V
$U_o$	=	11.1 V
$I_o$	=	9 mA
$P_o$	=	19 mW
$C_o$	=	100 nF
$L_o$	=	100 $\mu$ H

The equipment comprises two enclosures: the back pack (containing the battery, two sounders and a motion sensor) and the front unit, which has the optional integral radio module.

#### 14 DESCRIPTIVE DOCUMENTS

14.1	Drawing no:	Rev	Sheets	Date	Description
				(stamped by Sira)	
	DAS705720AA	1	1 of 1	05 Aug 05	Radio module: silkscreen
	DPP705720AC	1	1 to 2	05 Aug 05	Radio module: artwork
	DAS705720AD	1	1 to 2	05 Aug 05	Radio module: schematic
	DAS705720AH	2	1 to 11	05 Aug 05	Radio module: critical parts list
	DAS705820AA	1	1 to 3	05 Aug 05	Front unit: silkscreen
	DPP705820AC	1	1 to 2	05 Aug 05	Front unit: artwork
	DAS705820AD	1	1 of 1	05 Aug 05	Front unit: schematic
	DAS705820AH	2	1 to 6	05 Aug 05	Front unit: critical parts list
	DAS705821AA	1	1 to 2	05 Aug 05	Back pack: silkscreen
	DPP705821AC	1	1 to 2	05 Aug 05	Back pack: artwork
	DAS705821AD	1	1 of 1	05 Aug 05	Back pack: schematic
	DAS705821AH	2	1 to 3	05 Aug 05	Back pack: critical parts list
	DAS706497AA	1	1 to 2	05 Aug 05	General assembly
	DAS706497AD	1	1 to 2	05 Aug 05	Block diagram
	DAS706497AH	1	1 to 2	05 Aug 05	General assembly: parts list
	DAS706696AA	1	1 of 1	05 Aug 05	Battery board: artwork
	DAS706778AA	1	1 to 3	05 Aug 05	Gauge circuit – schematic & parts list
	N32115A	1	1 of 1	05 Aug 05	Label: front unit (radio version)
	N32116A	1	1 of 1	05 Aug 05	Label: front unit (non-radio version)
	N32117A	1	1 of 1	05 Aug 05	Label: front unit radio label
	N32135A	2	1 of 1	07 Sep 05	Label: front unit serial number

14.2 Report number R52A10919A

Date 8 September 2005

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### Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England  
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Email: exhaszard@sira.co.uk

Sira Certification Service is a service of Sira Test & Certification Ltd



**SCHEDULE**

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

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 report number R52A10919A.

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 This certificate relies on the following previously-certified product. When used as part of the equipment, the key attributes listed in the table below shall still be maintained by the original certificate.

Product	Certificate number	Key attributes
Littelfuse fuse	Baseefa 02ATEX0071U	 II 1G

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