



#### EU-TYPE EXAMINATION CERTIFICATE 1

- 2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- Sira 06ATEX1301X 3 Certificate Number:

Ireland

Issue: 7

4	Equipment:	TL105 Test Lamp for Flame Detection	
5	Applicant:	General Monitors (Ireland) Ltd	General Monitors Inc.
6	Address:	Ballybrit Business Park Galway	26776 Simpatica Circle Lake Forest

- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 8 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 60079-0:2012/A11:2013

EN 60079-1:2014

EN 60079-31:2014

California 92630

USA

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 Specific Conditions of Use identified in the schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified 11 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:
  - (Ex)

II 2 G D Ex db IIB+H<sub>2</sub> T4 Gb (Ta -15°C to +50°C) Ex tb IIIC T110°C Db

70161607 **Project Number** 

This certificate and its schedules may only be reproduced in its entirety and without change.



C Ellaby **Deputy Certification Manager** 

## Sira Certification Service

Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, United Kingdom

inaman	
Tel:	+44 (0) 1244 670900
Fax:	+44 (0) 1244 681330
Email:	ukinfo@csagroup.org
Web:	www.csagroupuk.org

Page 1 of 4





### SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

Sira 06ATEX1301X Issue 7

### 13 DESCRIPTION OF EQUIPMENT

The TL105 test lamp is a battery-operated, rechargeable test lamp that has a rated output of 12 VDC 130 W max and is used for UV, UV/IR or digital frequency IR flame detection systems. It is constructed from cast aluminium alloy, and incorporates a control board and Nickel Metal Hydride battery assembly that perform the equipment's measuring function. The enclosure utilises a  $4\frac{1}{2}$ -16 UN–2A/2B thread at one end to fit a lamp cap assembly, it also incorporates a PG 9 threaded aluminium stopping plug to gain access to a jack plug and a PG 11 threaded aluminium piezo switch. The enclosure and lamp assembly are secured against loosening by a  $\frac{5}{64}$ " Hex drive socket screw and the complete assembly meets the ingress protection requirements of IP 6X. The lamp cap assembly contains a sapphire window and is secured against loosening by a  $\frac{4}{8}$ -16 UNF –2A/2B threaded aluminium retainer.

### Variation 1

This variation introduced the following change:

i. Minor modifications to the certified drawings, none of which affect the original assessments.

### Variation 2

This variation introduced the following change:

i. The removal of one battery manufacturer from the list of suppliers.

### Variation 3

This variation introduced the following change:

- i. To recognise the use of alternate and replacement terminal crimps within the battery pack assembly.
- ii. To recognise the use of alternate components on the battery pack PCB board.
- iii. To permit dimensional changes to the battery power pack.

#### Variation 4

This variation introduced the following change:

- i. Following appropriate assessment, reference to the previous standards, EN 60079-0:2004, EN 60079-1:2004, EN 61241-0:2004 and EN 61241-1:2004 were replaced by EN 60079-0:2012, EN 60079-1:2007 and IEC 60079-31:2013 Ed 2. As a result, the markings were updated and a Special Condition for Safe Use was introduced necessitating an 'X' suffix to be added to the certificate number.
- ii. The product description was updated to indicate the IP 6X rating of the enclosure.

### Variation 5

This variation introduced the following change:

- i. The 'Harding Energy' internal battery pack and associated cells were replaced with one manufactured by 'Sanik Battery Co'.
- ii. The battery pack and the equipment marking were amended; this allows the end user to replace the battery pack as an alternative to returning the equipment to the manufacturer or their representative.
- iii. The following manufacturing instruction text was included into note 14 of drawing number 71650. "Full pack open circuit must be 11.5V or greater".

This certificate and its schedules may only be reproduced in its entirety and without change.

### Sira Certification Service Unit 6 Hawarden Industrial Park,

Hawarden, CH5 3US, United Kingdom





### SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

Sira 06ATEX1301X Issue 7

### Variation 6

This variation introduced the following change:

i. Following appropriate re-assessment, IEC 60079-31:2013 Ed 2 was replaced by EN 60079-31:2014.

### Variation 7

This variation introduced the following change:

- i. To permit changes to the minimum design length and maximum design gap of the flanged flameproof joint between the window and the enclosure. Resulting in a Specific Condition of Use being amended.
- ii. Following appropriate assessment to demonstrate compliance with the requirements of the latest standards, EN 60079-0:2012 and EN 60079-1:2007 are replaced with EN 60079-0:2012/A11:2013 and EN 60079-1:2014 respectively. The marking is subsequently modified.

### 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment				
0	1 December 2006	R51A15532A	The release of the prime certificate.				
1	9 August 2007	R51A16732A	The introduction of Variation 1.				
2	07 May 2008	R51A18262A	The introduction of Variation 2.				
3	11 May 2010	R22196A/00	The introduction of Variation 3.				
4	29 September 2014	R70006447A	The introduction of Variation 4.				
5	07 July 2015	R70033416A	The introduction of Variation 5.				
6	11 August 2015	R70030151A	This Issue covers the following changes:				
			The report number in the Certificate History at				
			Issue 5, was amended to correct a typographical				
			error, no technical changes were involved.				
			The introduction of Variation 6.				
7	15 February 2018	R70161607A	This Issue covers the following changes:				
			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.)				
			The introduction of Variation 7.				

This certificate and its schedules may only be reproduced in its entirety and without change.

## Sira Certification Service

Unit 6 Hawarden Industrial Park,

Hawarden, CH5 3US, United Kingdom

	,,,,
Tel:	+44 (0) 1244 670900
Fax:	+44 (0) 1244 681330
Email:	<u>ukinfo@csagroup.org</u>
Web:	www.csagroupuk.org





### SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

Sira 06ATEX1301X Issue 7

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

15.1 The flameproof joint width between the window and flange is other than the minimum value detailed in EN 60079-1, the value is as follows:

Location/Type	Width, L (mm)
Window/Flange	15.9

### 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 Sira 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.

This certificate and its schedules may only be reproduced in its entirety and without change.

# Sira Certification Service

Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, United Kingdom Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330 Email: <u>ukinfo@csagroup.org</u> Web: <u>www.csagroupuk.org</u>

## **Certificate Annexe**

sira	CSA Group
CERTIFICATION	

Certificate Number:	Sira 06ATEX1301X
Equipment:	TL105 Test Lamp for Flame Detection
Applicant:	General Monitors (Ireland) Ltd

### Issue 0

Drawing	Sheets	Rev.	Date:	Description
71650	1 of 1	2	21 Nov 06	Battery Pack 12V NiMH
71656	1 of 1	2	21 Nov 06	Specification TL105 Design
71674	1 of 1	2	21 Nov 06	Nameplate
71681	1 of 1	1	21 Nov 06	Plug, PG9

### Issue 1

Drawing	Sheets	Rev.	Date:	Description
71650	1 of 1	В	19 Jul 07	Battery Pack 12V NiMH
71656	1 of 1	А	30 Nov 06	Specification TL105 Design
71674	1 of 1	А	30 Nov 06	Nameplate
71681	1 of 1	Α	30 Nov 06	Plug, PG9

### Issue 2

Drawing	Sheets	Rev.	Date:	Description
71650	1 of 1	С	24 Apr 08	Battery Pack 12V NiMH

### Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
71650	1 of 1	D	08 Apr 10	BATTERY PACK 12v NIMH

### Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
71656	1 of 1	В	22 Aug 14	Specification TL105 Design
71674	1 of 1	В	21 Aug 14	Nameplate

### Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
71650	1 of 1	F	25 Jun 15	Battery Pack 12v NiMH
71674	1 of 1	С	25 Jun 15	Nameplate

Issue 6 – no new drawings were introduced.

### Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
71656	1 of 1	С	31 Jan 18	Specification TL105 Design
71674	1 of 1	F	28 Nov 17	Nameplate

This certificate and its schedules may only be reproduced in its entirety and without change.

## Sira Certification Service

Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, United Kingdom Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330 Email: ukinfo@csagroup.org

www.csagroupuk.org

Web: