



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 00ATEX1163

4 Equipment: 780 Series IR, IR<sup>3</sup> & CCTV Flame Detectors

5 Applicant: Spectrex Inc.

6 Address: Peckman Industrial Park  
218 Little Falls Road  
Cedar Grove  
N.J. 07009  
USA

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 R51A6988B.

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 Amendments A1 & A2  
EN 50018:1994

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment or protective system 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 2 G

EEx d IIB+H<sub>2</sub> T5 Amb. Temp. = -20°C to +55°C

EEx d IIB+H<sub>2</sub> T5 Amb. Temp. = -40°C to +70°C

EEx d IIB+H<sub>2</sub> T5 Amb. Temp. = -40°C to +85°C

Project Number 51V9536  
Date 6 February 2002  
Re-issued 9 December 2002  
C. Index 18

  
C Ellaby  
Certification Officer

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**Sira Certification Service**

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1163

Re-issued 9 December 2002

To permit report number R51A6988A to be replaced by R51A6988B, to allow the correction of minor typographical errors and to include appropriate label drawings with subsequent changes to section 14.

#### 13 DESCRIPTION OF EQUIPMENT

The 780 Series IR, IR<sup>3</sup> & CCTV Flame Detectors comprise a two part aluminium alloy enclosure. This consists a main housing assembly and a cover assembly secured by four M6 x 1.0 stainless steel cap head bolts.

The main housing assembly incorporates a sapphire window, mounted to the underside of a conical reflector protected by a permanently fixed guard plate, and contains the differing detection circuitry that distinguishes the variants within the series. The conical reflector fitted to the CCTV variants has a different cross sectional profile from the others.

The cover assembly contains terminals for connection to the supply wiring.

Cable entry is made through two cable entry points of up to a maximum size ¾" x 14 NPT situated on one face of the cover assembly.

#### Design options:

- Stainless steel as an alternative enclosure material of manufacture
- Metric, up to a maximum size M25 as an alternative cable entry threadform
- PG, up to a maximum size PG16 as an alternative cable entry threadform

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawing no: Sheets Rev Date Description

780841	1 of 1	-	20 Oct 02	Label
780831	1 of 1	F	16 Oct 02	Label
788831	1 of 1	B	16 Oct 02	Label
7780541	1 of 1	-	14 Oct 02	Label
7788531	1 of 1	B	21 Nov 01	Label
7780581	1 of 1	A	06 Nov 01	Label

14.2 Report No. R51A6988B

14.3 Certificate number Sira 00ATEX1229 last amended 9 December 2002

#### 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 in Report No. R51A6988B.

#### 17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS Certificates.

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