



# EPSILON

## 1 EC - Type Examination Certificate

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 06 ATEX 2074

4 Equipment: Smoke Detector – See description for variants

5 Manufacturer: Groveley Engineering Limited

6 Address: Anchor Works  
Dorset  
BH23 3HB. UK.

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Epsilon, Notified Body number 1712 in accordance with Article 9 of the Council directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive

The examination and test results are recorded in confidential report no RETS(A)1163/A/1 and /A/2

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:


EN 50014: 1997 incl A1 + A2


EN 50018: 2000 incl.A1

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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

12 The marking of the equipment shall include the following:

 II 2 G EEx d IIB + H<sub>2</sub> T3 Tamb -20°C to +45°C

 II 2 G EEx d IIB + H<sub>2</sub> T2 Tamb -20°C to +60°C



On behalf of Epsilon

S L Clark  
Director

Date: 26 Febraury 2007



13 **Schedule**

14 Certificate Number: EPSILON 06 ATEX 2074

15 Description of Equipment or protective system

The smoke detector unit comes in two main variants. The first variant is type number : **HSSA-E series** and utilises a Groveley Engineering flameproof enclosure certificate number DEMKO02ATEX131598 and two Groveley Engineering 1" diameter sinter assemblies. The sinter assemblies allow gas to be drawn into the sample chamber for analysis when connected to an external vacuum source. The second variant has 5 different type numbers: **HSSA-I series, Stratos – EX, Laserstar – EX, AutoSense – EX and LaserSense – EX** and utilises the same flameproof enclosure, two Knitmesh flame arrestors certificate number EPSILON06ATEX2138U and two internal fans to draw gas into the sample chamber for analysis.

16 Descriptive Documents

16.1 Report No: RETS(A)1163/A/1 and RETS(A)1163/A/2

16.2 Drawings:

Number	Date	Issue	Description
GD-SA-001-01	18/08/06	1	1 Inch Diameter Sinter Assembly
GD-SA-001-02	08/06	1	1" Diameter Sinter Assembly
GD-SA-001-03	08/06	1	1 Inch Sinter Assembly parts list
GD-SA-001-04	10/05	1	1 Inch Diameter Sinter Outer Body
GD-SA-001-05	08/06	2	1 Inch Diameter Sinter Top Body
GD-SA-001-06	08/06	1	Sinter
HSSA-01-001	11/05	1	Main Assembly without Internal fans
HSSA-02-001	12/05	2	Main Assembly with Internal Fans
HSSA-JB-8000-BAL	10/06	3	Large JB Base for HSSA
HSSA-JB-8000-COG	10/05	1	Glass JB Cover for HSSA
HSSA-JB-8000-GAD	11/05	2	GA Drawing
HSSA-JB-8000-GLW	03/06	2	Glass Window
HSSA-JB-8000-RNG	10/05	1	Metal Ring for HSSA
HSSA-JB-8000-LAB	12/06	6	EX Label

17 Conditions of Certification

17.1 Special Conditions for Safe Use  
None.

17.2 Conditions for Use  
None

18 Essential Health and Safety Requirements  
Essential Health and Safety Requirements not covered by section 9:  
Covered by manufacturer's instructions.

The manufacturer shall inform the notified body of any modifications to the design of the product described by this schedule