



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0383**

4 Equipment or Protective System: **Gasman Flammable Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Ltd**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, 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 the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. 04(C)0202

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

**EN 50014: 1997 + Amendments 1 & 2 EN 50020: 2002 EN 50018: 2000 + Amendment 1**

except in respect of those requirements listed at item 18 of the Schedule.

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 or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

**(Ex) II 2G EEx iad IIC T4 (-20°C ≤ Ta ≤ +65°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 0249

Project File No. 04/0202

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

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Registered in England No. 4305578 at the above address

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

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Certificate Number Baseefa04ATEX0383

### 15 Description of Equipment or Protective System

The **Gasman Flammable Gas Detector** is designed to detect the presence of flammable gas, give a visual indication of the concentration, and give audible and visual alarms if a preset level is exceeded. It comprises a rechargeable battery, a flammable gas sensor head, electronic circuits on printed circuit boards, a liquid crystal display, LED's and a piezo sounder, all contained in a plastic enclosure providing a degree of protection of at least IP20. External contacts are provided for recharging, and for serial data communications.

The apparatus must only be recharged or connected to serial communications when in a non-hazardous area, and using a Crowcon desktop charger or charger / interface part number C01940 or C01941.

#### Variation 0.1

The flammable gas sensor module is known as a flammable i-module. This variation permits the flammable i-module to be replaced by an oxygen i-module (for oxygen deficiency detection), or a toxic i-module. The permitted i-modules are listed in the User Manual provided by the manufacturer.

The apparatus is not designed for use in oxygen enriched atmospheres.

### 16 Report Number

04(C)0202

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

### 19 Drawings and Documents

Number	Issue	Date	Description
P-5430-A2	1	2005/02	Gasman Instrument G A - Rechargeable
P5423-2	2	2005/02/16	Gasman Rechargeable - Main PCB (circuit diagram, also gives total C and L)
P-5425-A4	1	2005/02	Gasman Rechargeable Main Board Certification Parts List
P-5424-A2	1	2005/02	Main Board Rechargeable PCB & Track Details
P-5407-A4	1	2005/02	Crowcon Type 1A ("Rechargeable") Hybrid Certification Parts List
P-5406-A3	1	2005/02	Gasman Type 1A Hybrid Mech and Tracking Details
P-5406-A3	2	2005/02	Gasman Type 1A Hybrid Mech and Tracking Details
P-5411-A4	1	2005/02	Crowcon Type 1B ("Encapsulated Fuse") Hybrid Certification Parts List



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<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
P-5410-A3	1	2005/02	Gasman Type 1B Hybrid Mech and Tracking Details
P-5486 issue 1 Sheet 1 of 2	1	2004/12/07	Flammable iModule (Circuit Diagram including C and L)
P-5492-A4	1	2005/02	Flammable i-Module Certification Parts List
P-5475-A3	1	2005/02	Flam i-Module PCB & Track Details (used only for general physical size of module)
P-5490 issue 1 Sheet 1 of 3	1	2005/01/12	Oxygen iModule (Circuit Diagram including C and L)
P-5494-A4	1	2005/02	Oxygen iModule Certification Parts List
P-5476-A3	1	2005/02	Oxygen i-Module PCB & Track Details (used only for general physical size of module)
P-5488 issue 1	1	2005/02/25	Toxic iModule (Circuit Diagram including C and L)
P-5493-A4 Sheets 1 & 2	1	2005/02	Toxic i-Module Certification Parts List
P-5477-A3	1	2005/02	Toxic i-Module PCB & Track Details (used only for general physical size of module)
P-5455-A4	2	2005/05	Flammable Gasman Serial / Model No Label
P5427 issue 1 Charger	1	2004/11/30	Gasman Charger (Circuit Diagram)
P5427 issue 2 Charger Sheet 1	2	2005/03/15	Gasman Charger (Circuit Diagram)
P-5428-A3	1	2005/02	Gasman Charger PCB and Track Details
P-5428-A3	2	2005/03	Gasman Charger PCB and Track Details
P5437 issue 1 Interface Sheet 2	1	2004/12/20	Gasman Interface PCB (Circuit Diagram)
P-5438-A3	1	2005/02	Gasman Interface PCB and Track Details
P-5429-A4	1	2005/03/03	Gasman External Charger Certification Parts List
P-5429-A4	2	2005/03/15	Gasman External Charger Certification Parts List
P-5439-A4	1	2005/03/03	Gasman External Interface Certification Parts List
P-5460-A2	3	2005/04	Gasman Charger / Interface Assembly

The above drawings are held with Certificate IECEx BAS 05.0038