



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: **Baseefa04ATEX0384**

4 Equipment or Protective System: **Gasman Oxygen or Toxic 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 50284: 1999

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 :

⊕ II 1G EEx ia 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.

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

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Schedule

14

Certificate Number Baseefa04ATEX0384

15 Description of Equipment or Protective System

The Gasman Oxygen or Toxic Gas Detector is designed to detect the presence of oxygen (deficiency) or toxic gas, give a visual indication of the concentration, and give audible and visual alarms if a preset level is exceeded. It comprises a battery, a 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. Two types are available, one rechargeable, and one non-rechargeable. External contacts are provided for recharging, and for serial data communications.

The sensors are known as Oxygen or Toxic i-modules, and the permitted i-modules are listed in the User Manual provided by the manufacturer.

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. In the case of the non-rechargeable apparatus the charging circuit will have no effect.

The cell in the non-rechargeable apparatus must only be changed when in a non-hazardous area, and replaced only with cell type CR2477.

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



Number	Issue	Date	Description
P-5410-A3	1	2005/02	Gasman Type 1B Hybrid Mech and Tracking Details
P-5472-A2	1	2005/02	Gasman Instrument G A - Non Rechargeable
P5401-1	1	2005/02/01	Gasman (Budgie) non-rechargeable SM6361 (circuit diagram, also gives total C and L)
P-5403-A4	1	2005/02	Gasman non Rechargeable Main Board Certification Parts List
P-5402-A2	1	2005/02	Main Board Non-rechargeable PCB & Track Details
P-5499-A4	1	2005/03	Gasman Conformal Coating of Non-rechargeable Main PCB
P-5415-A4	1	2005/02	Crowcon Type 2 ("Non Rechargeable") Hybrid Certification Parts List
P-5414-A3	1	2005/02	Gasman Type 2 Non-rechargeable Hybrid Mech and Tracking Details
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-5456-A4	2	2005/05	Toxic / Oxygen 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