



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: **Baseefa05ATEX0187**

4 Equipment or Protective System: **Tetra 3**

5 Manufacturer: **Crowcon Detection Instruments Ltd**

6 Address: **Abingdon, Oxon, 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. **05(C)0554**

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

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 2G EEx iad IIC T4 (-20°C ≤ Ta ≤ +55°C)

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

Baseefa Customer Reference No. **0249**

Project File No. **05/0554**

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.

A handwritten signature in black ink, appearing to read "R S Sinclair".

Baseefa

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



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Schedule

14

Certificate Number Baseefa05ATEX0187

15 Description of Equipment or Protective System

The Tetra 3 is a three bay four gas monitor, designed to monitor the concentration of oxygen (deficiency), toxic or flammable gas, and provide visual, audible and physical (vibrator) warnings if preset limits are exceeded. The presence of any sensor (known as an i-module) is optional and the maximum possible is one flammable i-module, one oxygen i-module and one toxic i-module. The toxic i-module may contain a dual sensor to measure two toxic gases.

It comprises electronic circuits on printed circuit boards, a display, various LED indicators, a pump, a vibrator, a sounder and a rechargeable lithium-ion battery, all contained in a plastic enclosure providing a degree of protection of at least IP20.

The permitted sensors used in the i-modules are specified in the Crowcon documentation.

The apparatus must only be recharged or connected to serial data communications in a non-hazardous area, using a Crowcon desktop charger or charger / interface, part number C011018 or C011019.

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

16 Report Number

05(C)0554

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-5820-A2	2	DEC / 05	Mini Tetra3 3 Bay / 4 Gas Monitor (G A)
P-5829-A4	1	DEC/05	Insulation Label (Ribbon cable separator)
P-5847-A4	1	Oct / 05	Mini Tetra Main Board Insulating Label
P5800 Sheets 1 & 2	2	31/10/05	Mini Tetra - Main PCB (circuit diagram, also gives total C and L)
P-5832-A4	1	17-10-2005	Mini Tetra Main Board Certification Parts List
P-5840-A2	2	11/05	Main Board PCB & Track Details
P-5407-A4	4	Sept 2005	Crowcon Type 1A ("Rechargeable") Hybrid Certification Parts List
P-5406-A3	2	02/05	Gasman Type 1A Hybrid Mech and Tracking Details
P-5517 Issue 1	1	06/05	Hybrid 1A (Circuit Diagram)



Number	Issue	Date	Description
P-5411-A4	3	10/05	Crowcon Type 1B ("Encapsulated Fuse") Hybrid Certification Parts List
P-5410-A3	1	02/05	Gasman Type 1B Hybrid Mech and Tracking Details
P-5516	2	07/05	Hybrid 1B (Circuit Diagram)
P-5801	1	12/10/05	Mini-Tetra iModule Interface Board (Circuit Diagram)
P-5836-A4	1	17.10.2005	Mini-Tetra iModule Interface Board Certification Parts List
P-5841-A2	1	10/05	Mini Tetra Module Terminal Board PCB & Track Details
P-5802 Sheets 1 to 15	1	12/10/05	Tetra3 Display Board (Circuit Diagram)
P-5834	1	20.10.2005	Mini-Tetra (Tetra3) Display Board Certification Parts List
P-5842-A2	1	10/05	Mini-Tetra Display Board PCB Layout
P-5486 issue 3 Sheet 1 of 2	3	10-11-05	Flammable iModule (Circuit Diagram including C and L)
P-5492-A4	4	Dec 2005	Flammable i-Module Certification Parts List
P-5475-A3	2	06 / 05	Flam i-Module PCB & Track Details (used only for general physical size of module)
P-5490 issue 2 Sheet 1 of 3	2	4-2-2005	Tetra / Gasman Oxygen iModule (Circuit Diagram including C and L)
P-5494-A4	2	May 2005	Oxygen iModule Certification Parts List
P-5476-A3	2	06/05	Oxygen i-Module PCB & Track Details (used only for general physical size of module)
P-5488 issue 2 Sheet 1 of 3	2	15/6/05	Tetra/Gasman Toxic iModule (Circuit Diagram including C and L)
P-5493-A4 Sheets 1 & 2	4	Nov 2005	Toxic i-Module Certification Parts List
P-5477-A3	2	06/05	Toxic i-Module PCB & Track Details (used only for general physical size of module)
P-5518 issue 1	1	12/10/05	Tetra/Gasman COSH iModule (Circuit Diagram including C and L)
P-5844-A4	1	20.10.2005	Dual Toxic i-Module Certification Parts List
P-5526-A3	1	10/05	Dual Toxic i-Module PCB & Track Details (used only for general physical size of module)
P-5520 Issue 1	1	6/9/05	Alphasense COSH iModule Adapter
P-5527-A3	1	10/05	Alphasense D2 COSH i-Module Adapter PCB & Track Details
P-5825-A4	1	10/05	Mini Tetra Baseefa Certification Label
P5821-A2	2	Oct / 05	Mini Tetra Charger Assembly
P-5817 Issue 2	2	12/10//05	Mini-Tetra Charger (Circuit Diagram)



Number	Issue	<u>Date</u>	Description
P-5843-A2	1	10/05	Tetra3 Charger PCB and Track Details
P-5838-A4	1	20.10.2005	Tetra3 Charger Certification Parts List
P5437 issue 1 Interface Sheet 1	1	20/12/04	Gasman Interface PCB (Circuit Diagram)
P-5438-A3	1	02/05	Gasman Interface PCB and Track Details
P-5439-A4	1	3.3.2005	Gasman External Interface Certification Parts List
P-5825-A4	<u>1</u>	10/05	Mini Tetra Charger Instrument Label

The above drawings are common to Report UK/BAS/05/0554 and held with Certificate IECEx BAS 05.0059.



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa05ATEX0187/1**

4 Equipment or Protective System: **Tetra 3**

5 Manufacturer: **Crowcon Detection Instruments Ltd**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa05ATEX0187 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **0249**

Project File No. **05/0256**

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.

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R S SINCLAIR
DIRECTOR
On behalf of
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Schedule

14

Certificate Number Baseefa05ATEX0187/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

To permit changes to drawings to enable the IR i-module to be listed separately from the Flammable i-module. This is a documentation change, and does not affect the safety assessment of the apparatus.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
P-5492-A4	5	Feb 2006	Flammable i-Module Certification Parts List
P-5528-A4	1	Feb 2006	IR i-Module Certification Parts List (Dynamment Sensor)

The above drawings are common to and held with Reports UK/BAS/05/0554 and UK/BAS/05/0256/4 (Certificate IECEx BAS 05.0059).