



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 04.0024 issue No.:6 History:
Status: Current Issue No. 6 (2007-7-5)
Date of Issue: 2007-07-05 Page 1 of 4 Issue No. 5 (2006-9-18)

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:


Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 04.0024**
Ex Ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex Ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Managing Director

Signature:
(for printed version)



11-7-07

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 04.0024
Date of Issue: 2007-07-05 Issue No.: 6
Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
UK/BAS/04/0176

File Reference:
04/0176



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 04.0024

Date of Issue: 2007-07-05

Issue No.: 6

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 04.0024

Date of Issue: 2007-07-05

Issue No.: 6

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEx ATR: **UK/BAS/05/0555**

File Reference: **04/0176**

Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEx ATR: **UK/BAS/05/0685**

File Reference: **04/0176**

Variation 3.1

To clarify that the marking of Ex iad IIC T4 ($-20^{\circ} \leq T_a \leq +55^{\circ}\text{C}$) applies to rechargeable instruments, and Ex iad IIC T3 ($-20^{\circ} \leq T_a \leq +55^{\circ}\text{C}$) applies to non rechargeable instruments.

Variation 3.2

For all instruments, to permit the use of alternative sensor modules known as flammable, oxygen, or toxic i-modules in place of the original flammable, oxygen and toxic modules. Also to permit minor changes to the label drawings.

Variation 3.3

For the rechargeable instrument only, to permit the use of a further alternative sensor module known as IR i-module in place of the original flammable module.

IECEx ATR: **UK/BAS/05/0256/2**

File Reference: **04/0176**

Variation 4.1

For all instruments, to permit various minor changes to drawings.

Variation 4.2

For rechargeable instruments, to permit the use of alternative batteries type GP1865L220.

ExTR: **GB/BAS/ExTR06.0085/00**

File Reference: **06/0479**

Variation 5.1

To permit minor changes to a drawing, and to introduce an optional alternative CO₂ chemical i-module.

ExTR: **GB/BAS/ExTR06.0104/00**

File Reference: **06/0673**

Variation 6.1

To permit minor changes to documents, and to introduce an optional alternative i-module known as the Dual Toxic or COSH sensor.

Variation 6.2

To permit the the chargers with specific part numbers to be replaced by any Crowcon charger with an output (U_m) of 9V.

ExTR: **GB/BAS/ExTR06.0177/00**

File Reference: **06/0781**



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEx BAS 04.0024** Issue No.: **5**

Status: **Current**

Date of Issue: **2006-09-18** Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEx BAS 04.0024**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

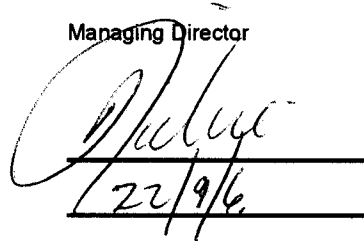
Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)



22/9/6

Date:

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United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 04.0024

Date of Issue: 2006-09-18

Issue No.: 5

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

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IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
UK/BAS/04/0176

File Reference:
04/0176



IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 04.0024**

Date of Issue: **2006-09-18**

Issue No.: **5**

Page **3** of **4**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 04.0024

Date of Issue: 2006-09-18

Issue No.: 5

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEx ATR:
UK/BAS/05/0555

File Reference:
04/0176

Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEx ATR:
UK/BAS/05/0685

File Reference:
04/0176

Variation 3.1

To clarify that the marking of Ex iad IIC T4 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to rechargeable instruments, and Ex iad IIC T3 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to non rechargeable instruments

Variation 3.2

For all instruments, to permit the use of alternative sensor modules known as flammable, oxygen, or toxic i-modules in place of the original flammable, oxygen and toxic modules. Also to permit minor changes to the label drawings.

Variation 3.3

For the rechargeable instrument only, to permit the use of a further alternative sensor module known as IR i-module in place of the original flammable module.

IECEx ATR:
UK/BAS/05/0256/2

File Reference:
04/0176

Variation 4.1

For all instruments, to permit various minor changes to drawings.

Variation 4.2

For rechargeable instruments, to permit the use of alternative batteries type GP1865L220.

ExTR: GB/BAS/ExTR06.0085/00

File Reference: 06/0479

Variation 5.1

To permit minor changes to a drawing, and to introduce an optional alternative CO2 chemical i-module

ExTR: GB/BAS/ExTR06.0104/00

File Reference: 06/0673



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEX BAS 04.0024** Issue No.: **4**

Status: **Current**

Date of Issue: **2006-08-30** Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 04.0024**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)

Date:

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Staden Lane
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Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 04.0024**

Date of Issue: **2006-08-30**

Issue No.: **4**

Page **2** of **4**

Manufacturer: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
UK/BAS/04/0176

File Reference:
04/0176



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 04.0024**

Date of Issue: **2006-08-30**

Issue No.: **4**

Page **3** of **4**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 04.0024**

Date of Issue: **2006-08-30**

Issue No.: **4**

Page **4** of **4**

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEX ATR:
UK/BAS/05/0555

File Reference:
04/0176

Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEX ATR:
UK/BAS/05/0685

File Reference:
04/0176

Variation 3.1

To clarify that the marking of Ex iad IIC T4 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to rechargeable instruments, and Ex iad IIC T3 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to non rechargeable instruments

Variation 3.2

For all instruments, to permit the use of alternative sensor modules known as flammable, oxygen, or toxic i-modules in place of the original flammable, oxygen and toxic modules. Also to permit minor changes to the label drawings.

Variation 3.3

For the rechargeable instrument only, to permit the use of a further alternative sensor module known as IR i-module in place of the original flammable module.

IECEX ATR:
UK/BAS/05/0256/2

File Reference:
04/0176

Variation 4.1

For all instruments, to permit various minor changes to drawings.

Variation 4.2

For rechargeable instruments, to permit the use of alternative batteries type GP1865L220.

ExTR: **GB/BAS/ExTR06.0085/00**

File Reference: **06/0479**



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 05.0037

Issue No.: 3

Status: Current

Date of Issue: 2006-03-01

Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 05.0037**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

*Replaced by
BAS 04.0024*

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)

[Handwritten Signature]
3/3/6

Date:

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Rockhead Business Park
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SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2006-03-01**

Issue No.: **3**

Page **2** of **4**

Manufacturer: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

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STANDARDS:

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IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
UK/BAS/04/0176

File Reference:
04/0176



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0037

Date of Issue: 2006-03-01

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2006-03-01**

Issue No.: **3**

Page **4** of **4**

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEX ATR:
UK/BAS/05/0555

File Reference:
04/0176

Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEX ATR:
UK/BAS/05/0685

File Reference:
04/0176

Variation 3.1

To clarify that the marking of Ex iad IIC T4 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to rechargeable instruments, and Ex iad IIC T3 ($-20^{\circ} \leq T_a \leq +55^{\circ}C$) applies to non rechargeable instruments

Variation 3.2

For all instruments, to permit the use of alternative sensor modules known as flammable, oxygen, or toxic i-modules in place of the original flammable, oxygen and toxic modules. Also to permit minor changes to the label drawings.

Variation 3.3

For the rechargeable instrument only, to permit the use of a further alternative sensor module known as IR i-module in place of the original flammable module.

IECEX ATR:
UK/BAS/05/0256/2

File Reference:
04/0176

Annexe:



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEX BAS 04.0024** Issue No.: **3**

Status: **Current**

Date of Issue: **2006-03-01** Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Variation 3
1/3/06
Certificate #
change

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 04.0024**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)


2-8-06

Date:

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Certificate No.: **IECEX BAS 04.0024**

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Page 2 of 4

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IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 04.0024**

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Page **3** of **4**

Schedule

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The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: IECEx BAS 04.0024

Date of Issue: 2006-03-01

Issue No.: 3

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

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File Reference:
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Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEX ATR:
UK/BAS/05/0685

File Reference:
04/0176

Variation 3.1

To clarify that the marking of Ex iad IIC T4 ($-20^{\circ} \leq T_a \leq +55^{\circ}\text{C}$) applies to rechargeable instruments, and Ex iad IIC T3 ($-20^{\circ} \leq T_a \leq +55^{\circ}\text{C}$) applies to non rechargeable instruments

Variation 3.2

For all instruments, to permit the use of alternative sensor modules known as flammable, oxygen, or toxic i-modules in place of the original flammable, oxygen and toxic modules. Also to permit minor changes to the label drawings.

Variation 3.3

For the rechargeable instrument only, to permit the use of a further alternative sensor module known as IR i-module in place of the original flammable module.

IECEX ATR:
UK/BAS/05/0256/2

File Reference:
04/0176



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BAS 05.0037** Issue No.: **2**
Status: **Current**
Date of Issue: **2006-01-09** Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 05.0037**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

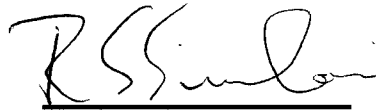
Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)


9-1-05

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Baseefa (2001) Ltd.

Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2006-01-09**

Issue No.: **2**

Page **2** of **4**

Manufacturer: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX ATR:
UK/BAS/04/0176

File Reference:
04/0176



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2006-01-09**

Issue No.: **2**

Page **3** of **4**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2006-01-09**

Issue No.: **2**

Page **4** of **4**

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEX ATR: UK/BAS/05/0555	File Reference: 04/0176
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Variation 2.1

To permit the use of an alternative multi-way charger labelled TETRA MULTICHARGER.

IECEX ATR: UK/BAS/05/0685	File Reference: 04/0176
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Annexe:



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEX BAS 05.0037** Issue No.: **1**

Status: **Current**

Date of Issue: **2005-09-09** Page 1 of 4

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEX BAS 05.0037**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)

Date:

9-9-05

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IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 05.0037**

Date of Issue: **2005-09-09** Issue No.: **1**

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Ltd**
 2 Blacklands Way
 Abingdon Business Park
 Abingdon
 Oxfordshire
 OX14 1DY
 United Kingdom

Manufacturing location(s):

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STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
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IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEx ATR:	File Reference:
UK/BAS/04/0176	04/0176



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0037

Date of Issue: 2005-09-09

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tetra Gas Detector is 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 is optional and the maximum possible is one flammable, one oxygen and two toxic.

The apparatus may be powered by either primary batteries or a secondary battery pack. The rechargeable battery must only be charged in a non-hazardous area, using a Crowcon charger part numbers: 955160, 955161, 955185, 955228, 955218, 955219, 955224 or 955221.

The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0037

Date of Issue: 2005-09-09

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the use of alternative Switch Boards containing alternative IR Transceivers. Only one Switch Board is fitted at any time and the particular one used depends on the type of Transceiver which is fitted.

IECEx ATR:
UK/BAS/05/0555

File Reference:
04/0176

Annexe:



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEx BAS 05.0037** Issue No.: **0**

Status: **Current**

Date of Issue: **2005-04-29** Page 1 of 3

Applicant: **Crowcon Detection Instruments Ltd**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **TETRA Gas Detector**
Optional accessory:

Type of Protection: **Intrinsic Safety, Flameproof**

Marking: **IECEx BAS 05.0037**
Ex ia d IIC T4 (-20°C ≤ Ta ≤ +55°C)
or
Ex ia d IIC T3 (-20°C ≤ Ta ≤ +55°C)


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)



12-5-05

Date:

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SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0037**

Date of Issue: **2005-04-29**

Issue No.: **0**

Page 2 of 3

Manufacturer: **Crowcon Detection Instruments Ltd**
 2 Blacklands Way
 Abingdon Business Park
 Abingdon
 Oxfordshire
 OX14 1DY
 United Kingdom

Manufacturing location(s):

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This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

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IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0037

Date of Issue: 2005-04-29

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

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The Tetra Gas Detector is not designed for use in oxygen enriched atmospheres i.e. greater than 21% oxygen

CONDITIONS OF CERTIFICATION: NO

Annexe: