



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 ULD 11.0004X

Issue No: 3

Certificate history:

Issue No. 3 (2013-12-02)

Status: Current

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Issue No. 2 (2012-07-02)

Date of Issue: 2013-12-02

Issue No. 1 (2012-02-19)

Issue No. 0 (2011-06-01)

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

Electrical Apparatus: Gas-Pro, hand-held battery operated Gas Detector
Optional accessory: Pump, Flow Plate

Type of Protection: d ia

Marking: Ex d ia IIC T4 Gb Tamb: -20 °C to +55 °C
IECEx ULD 11.0004X

Approved for issue on behalf of the IECEx
Certification Body:

Jasmin Omerovic

Position:

Certification Project Engineer

Signature:
(for printed version)

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](http://www.iecex.com).

Certificate issued by:

UL International Demko A/S
Borupvang 5A,
DK-2750 Ballerup
Denmark



Cebeco



IECEX Certificate of Conformity

Certificate No: IECEx ULD 11.0004X

Issue No: 3

Date of Issue: 2013-12-02

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

Additional 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 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2006 Edition:5	Explosive atmospheres - Part 11: Equipment protection by 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

Test Report:

[DK/ULD/ExTR11.0005/00](#)

[DK/ULD/ExTR11.0005/01](#)

[DK/ULD/ExTR11.0005/02](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/03](#)

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IECEx Certificate of Conformity

Certificate No: IECEx ULD 11.0004X

Issue No: 3

Date of Issue: 2013-12-02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

CONDITIONS OF CERTIFICATION: YES as shown below:

The equipment is X-marked and shall be marked with the followings warnings:
The Gas-Pro shall only be connected to the charging circuit or communications interface circuit, using only suitably rated cables as defined in the Electrical Data, in a safe area, within a maximum ambient temperature of 0 °C to +40 °C.

The Cebeco logo is located at the bottom left of the page. It features the word 'Cebeco' in a white, sans-serif font, centered within a dark blue, rounded rectangular background.



IECEX Certificate of Conformity

Certificate No: IECEx ULD 11.0004X

Issue No: 3

Date of Issue: 2013-12-02

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

Addition of new Main PCB types ECAD-000106 and ECAD-000106-01.
Addition of alternative overmould material types.

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
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Certificate No	IECEx ULD 11.0004X	Issue No	2	Certificate history
Status	Current			Issue No 2 (2012-7-2) Issue No 1 (2012-2-19) Issue No 0 (2011-6-1)
Date of Issue	2012-07-02	Page	1 of 4	

Applicant
Crowcon Detection Instruments Ltd.
2 Blacklands Way
Abingdon Business Park,
ABINGDON,
Oxfordshire,
OX14 1DY
United Kingdom

Electrical Apparatus: **Gas-Pro, hand-held battery operated Gas Detector**
Optional accessory: **Pump, Flow Plate**

Type of Protection: **d ia**

Marking: **Ex d ia IIC T4 Gb Tamb. -20 °C to +55 °C**
IECEx ULD 11.0004X

Approved for issue on behalf of the IECEx
Certification Body **Jasmin Omerovic**

Position: **Certification Project Engineer**

Signature
(for printed version)

Date

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Certificate issued by
UL International DEMKO A/S
Borupvang 5A,
DK-2750 Ballerup
Denmark





IECEx Certificate of Conformity

Certificate No: IECEx ULD 11.0004X
Date of Issue: 2012-07-02
Issue No: 2
Page 2 of 4

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

Additional 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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by 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

Test Report:
DKAULD/ExTR11 0005/00

DKAULD/ExTR11 0005/01

Quality Assessment Report:

GB/BAS/QAR06 0070/03





IECEX Certificate of Conformity

Certificate No. IECEX ULD 11 0004X

Date of Issue: 2012-07-02

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Gas-Pro is a portable, hand-held, re-chargeable battery operated Gas Detector used for the detection of Combustible and Toxic gases, and oxygen depletion. The unit functions as an alarm and data logger when secured to a person by means of a metal Grip Clip. The circuitry is housed within a polymeric enclosure with approximate dimensions of 130 mm by 83 mm by 45 mm and with orange or red over-moulding and display window. Battery charging and data transfer to the equipment is by the use of an optional charging and communications cables, for use in a safe area only. An optional pump & flow plate is available to facilitate gas sampling.

Main PCB Assy No. (Crowcon Part Number)	Sensors Configuration	
	Reference	Type
1004-1080(S013005)	S1 (2)	Toxic (Universal)
	S2 (1)	Toxic (Single)
	S3 (1)	Combustible (IR)
	S4 (2)	Oxygen
1004-1047(S1013001)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (5V max)
	S3 (1)	Toxic (Single)
	S4 (2)	Oxygen
1004-1047-01(S013021)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (4.25V max)
	S3 (1)	Toxic (Single)
	S4 (2)	Oxygen
1004-1042(S1013002)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (4.25V max)
	S3 (1)	Toxic (Single)
	S4 (2)	Oxygen

CONDITIONS OF CERTIFICATION: YES as follows:

The equipment is X-rated and shall be marked with the following warning: **WARNING - DO NOT CHARGE THE BATTERY OR CONNECT TO THE EQUIPMENT IN A HAZARDOUS ENVIRONMENT - READ AND UNDERSTAND THE MANUAL BEFORE USE.**

The Gas-Pro shall only be connected to the charging circuit or communications interface circuit, using only suitable cables as defined in the Electrical Data, in a safe area, within a maximum ambient temperature of 0 °C to +40 °C.

The Gas-Pro has not been assessed for Performance as a Gas Detector.

The Gas-Pro has not been assessed as a Safety Device or Safety Related device.

Notes: (1) Suitably Certified Sensors (2) Non Certified Sensors.





IECEx Certificate of Conformity

Certificate No

IECEx ULD 11 0004X

Date of Issue

2012-07-02

Issue No : 2

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

Correction of CoC to add missing T-code to markings on page 1 (T4)





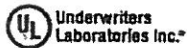
IECEx Certificate of Conformity

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

Certificate No.	IECEx ULD 11.0004X	Issue No.	1	Certificate history
Status	Current			Issue No. 1 (2012-2-19) Issue No. 0 (2011-6-1)
Date of issue	2012-02-19	Page 1 of 4		
Applicant	Crowcon Detection Instruments Ltd. 2 Blacklands Way Abingdon Business Park ABINGDON Oxfordshire, OX14 1DY United Kingdom			
Electrical Apparatus	Gas-Pro, hand-held battery operated Gas Detector			
Optional accessory	Pump, Flow Plate			
Type of Protection	d ia			
Marking	Ex d ia IIC Gb Tamb. -20 °C to +55 °C IECEx ULD 11.0004X			
Approved for issue on behalf of the IECEx Certification Body	Jasmin Osterovic			
Position	Certification Project Engineer			
Signature (for printed version)				
Date				

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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:
UL International DENKÖ A/S
Borupvang 3A,
DK-2750 Ballerup
Denmark



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IECEx Certificate of Conformity

Certificate No. IECEx ULD 11.0004X

Date of issue: 2012-02-18

Issue No. 1

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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(s) 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 : 2004 Edition 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 : 2007-10 Edition 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition 4	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'
IEC 60079-11 : 2008 Edition 5	Explosive atmospheres - Part 11: Equipment protection by 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 tested has successfully met the examination and test requirements as recorded in:

Test Report
DK/ULD/ExTR11/0005/00

DK/ULD/ExTR11/0005/01

Quality Assessment Report

GB 943 QAR06 0010 03



IECEx Certificate of Conformity

Certificate No: IECEx ULD 11.0004X

Date of Issue: 2012-02-10

Issue No: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Gas-Pro is a portable, hand-held, re-chargeable battery operated Gas Detector used for the detection of Combustible and Toxic gases, and oxygen depletion. The unit functions as an alarm and data-logger when secured to a person by means of a metal Grip Clip. The circuitry is housed within a polymeric enclosure with approximate dimensions of 130 mm by 63 mm by 45 mm and with orange or red over-moulding and display window. Battery charging and data transfer to the equipment is by the use of an optional charging and communications cables, for use in a safe area only. An optional pump & flow plate is available to facilitate gas sampling.

Main PCB Assy No. (Crowcon Part Number)	Sensors Configuration	
	Reference	Type
1004-1050(S013005)	S1(1)	Toxic (Universal)
	S2(1)	Toxic (Single)
	S3(1)	Combustible (IR)
	S4(1)	Oxygen
1004-1047(S1013001)	S1(1)	Toxic (Universal)
	S2(1)	Pellistor or PID (5V max)
	S3(1)	Toxic (Single)
	S4(1)	Oxygen
1004-1047-S1(S013021)	S1(1)	Toxic (Universal)
	S2(1)	Pellistor or PID (4.25V max)
	S3(1)	Toxic (Single)
	S4(1)	Oxygen
1004-1042(S1013002)	S1(1)	Toxic (Universal)
	S2(1)	Pellistor or PID (5V max)
	S3(1)	Combustible (IR)
	S4(1)	Oxygen
1004-1042-S1(S013022)	S1(1)	Toxic (Universal)
	S2(1)	Pellistor or PID (4.25V max)
	S3(1)	Combustible (IR)
	S4(1)	Oxygen
Notes (1) Suitably Certified Sensors(2) Non Certified Sensors.		

CONDITIONS OF CERTIFICATION; YES as shown below:

The equipment is X-marked and shall be marked with the following warnings: § WARNING – DO NOT CHARGE THE BATTERY OR CONNECT TO THE EQUIPMENT IN A HAZARDOUS LOCATION § WARNING – READ AND UNDERSTAND THE MANUAL BEFORE USE

The Gas-Pro shall only be connected to the charging circuit or communications interface circuit, using only suitably rated cables as defined in the Electrical Data, in a safe area, within a maximum ambient temperature of 0 °C to +40 °C.

The Gas-Pro has not been assessed for Performance as a Gas Detector

The Gas-Pro has not been assessed for use as a Safety Device or Safety Related device.





IECEX Certificate of Conformity

Certificate No. IECEX ULD 11.0004X

Date of Issue 2012-02-10


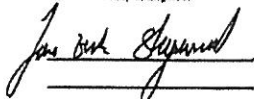

Issue No. 1

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

Addition of red overmoulded variant



		IECEx Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres <small>for rules and details of the IECEx Scheme visit www.iecex.com</small>			
Certificate No	IECEx ULD 11 0004X	Issue No	01
Status	Current	Certificate history	
Date of Issue	2011-06-01	Page 1 of 3	
Applicant	Crowcon Detection Instruments Ltd. 2 Blacklands Way Abingdon Business Park ABINGDON, Oxfordshire, OX14 1DY United Kingdom		
Electrical Apparatus	Gas-Pro, hand-held battery operated Gas Detector		
Optional accessory	Pump, Flow Plate		
Type of Protection	d ia		
Marking	Ex d ia IIC Gb Tamb: -20 °C to +35 °C		
Approved for issue on behalf of the IECEx Certification Body	Jason Omphroy		
Position	Certification Project Engineer		
Signature (for printed version)			
Date			
<small>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</small>			
Certificate issued by	UL International DENKO A/S Lyskaer 8 P O Box 514 2730 Hørlev Denmark		
			





IECEX Certificate of Conformity

Certificate No. IECEX ULD 11 0004X
Date of Issue: 2011-06-01 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)

This certificate is issued as verification that a sample(s) representative of production, was assessed and listed 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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition 4.0
IEC 60079-0 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition 5
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'
Edition 6
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety 'i'
Edition 5

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:

Test Report

DKULD ExTR11 0005/00

Quality Assessment Report

GB 9AS/QAR06 0070/03



IECEx Certificate of Conformity

Certificate No. IECEx ULD 11.0004X

Date of Issue: 2011-06-01

Issue No. 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows.

Gas-Pro is a portable, hand-held, re-chargeable battery operated Gas Detector used for the detection of Combustible and Toxic gases, and oxygen depletion. The unit functions as an alarm and data logger when secured to a person by means of a metal Grip Clip. The circuitry is housed within a polymeric enclosure with approximate dimensions of 130 mm by 83 mm by 43 mm and with orange over-moulding and display window. Battery charging and data transfer to the equipment is by the use of an optional charging and communications cables, for use in a safe area only. An optional pump & flow plate is available to facilitate gas sampling.

Main PCB Assy No. (Crowcon Part Number)	Sensors Configuration	
	Reference	Type
1004-1030(S013005)	S1 (2)	Toxic (Universal)
	S2 (1)	Toxic (Single)
	S3 (1)	Combustible (IR)
	S4 (2)	Oxygen
1004-1047(S1013001)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (5V max)
	S3 (1)	Toxic (Single)
	S4 (2)	Oxygen
1004-1047-01(S013021)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (4.25V max)
	S3 (1)	Toxic (Single)
	S4 (2)	Oxygen
1004-1042(S1013002)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (5V max)
	S3 (1)	Combustible (IR)
	S4 (2)	Oxygen
1004-1042-01(S013022)	S1 (2)	Toxic (Universal)
	S2 (1)	Pellistor or PID (4.25V max)
	S3 (1)	Combustible (IR)
	S4 (2)	Oxygen

Notes (1) Suitably Certified Sensors (2) Non Certified Sensors.

CONDITIONS OF CERTIFICATION: YES as shown below:

The equipment is X-marked and shall be marked with the following warnings: **WARNING - DO NOT CHARGE THE BATTERY OR CONNECT TO THE EQUIPMENT IN A HAZARDOUS LOCATION** & **WARNING - READ AND UNDERSTAND THE MANUAL BEFORE USE**

The Gas-Pro shall only be connected to the charging circuit or communications interface circuit, using only suitably rated cables as defined in the Electrical Data, in a safe area, within a maximum ambient temperature of 0 °C to +40 °C.

The Gas-Pro has not been assessed for Performance as a Gas Detector

The Gas-Pro has not been assessed for use as a Safety Device or Safety Related device.

