



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx CSAE 25.0043X	Page 1 of 3	<u>Certificate history:</u>
Status:	Current	Issue No: 0	
Date of Issue:	2025-12-03		
Applicant:	CROWCON DETECTION INSTRUMENTS LTD 172 Brook Drive Milton Park Abingdon Oxfordshire OX14 4SD United Kingdom		
Equipment:	UnoIQ & DuoIQ Portable Battery Powered Gas Detectors		
Optional accessory:			
Type of Protection:	Intrinsically Safe and Flameproof		
Marking:	Certification code dependent on sensors fitted – See Product Description for Certification code.		

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Certificate No.: **IECEX CSAE 25.0043X**

Page 2 of 3

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Manufacturer: **CROWCON DETECTION INSTRUMENTS LTD**
172 Brook Drive
Milton Park
Abingdon
Oxfordshire
OX14 4SD
United Kingdom

Manufacturing
locations: **CROWCON DETECTION
INSTRUMENTS LTD**
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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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[GB/CSAE/ExTR25.0097/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/12](#)



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The UnoIQ & DuoIQ Portable Battery Powered Portable Gas Detectors are hand-held portable gas detectors that are fitted with either one (UnoIQ) or two (DuoIQ) gas sensor X-Modules for the detection of up to two gases. The products are available with a number of models fitted with different gas sensors, with some sensors fitted being separately certified with one or a combination of protection concepts as detailed in the model information below.

The product is to be powered by a rechargeable lithium-ion cell and comprises a main PCB with interconnection up to two sensor modules and an LCD Display. In addition to the display, the equipment is fitted with LED, sounder and vibration alarm features. The equipment is fitted with Near Field Communications (NFC) and Bluetooth Low Energy (BLE) communication links for communication with the detector.

The equipment will be housed in an over-moulded polycarbonate enclosure with the gas sensor modules located in a secured tray in the base of the gas detector. Due to the range of the sensors, there are two sizes of trays (Compact & 4-Series) that can be fitted to the gas detector.

The only differences between the UnoIQ & DuoIQ Gas Detector variants are the UnoIQ is only fitted with one gas sensor module.

For full description and conditions of manufacture see annexe

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment must only be charged in the non-hazardous area using a suitably certified SELV, PELV or ES1 or equivalent charger with $U_m = 6.5V$ d.c.

Annex:

[IECEx CSAE 25.0043X Iss 0 Annexe.pdf](#)

EQUIPMENT (continued)

The only external connection to the equipment is the charger connector. The equipment must only be charged in the non-hazardous area using a suitably certified SELV, PELV or ES1 or equivalent charger with the following parameter:

Charger Connector
 $U_m = 6.5V \text{ d.c}$
Model Information

The UnoIQ & DuoIQ Gas Detectors can be fitted with the following X-modules with the equipment certification code dependent on sensor combination fitted as listed below:

UnoIQ Compact X-Modules (X-Module Slot 2 not used)			
X-Module Type	Equipment Certification Code	Sensors Fitted	
Toxic / O2	Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Electrochemical Toxic or Oxygen Sensor*
Pellistor SGX	Ex da ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Certified SGX Pellistor Catalytic Flammable Gas Sensor
UnoIQ Series-4 X-Modules (X-Module Slot 2 not used)			
Pellistor – 4P75	Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +55°C)	X-Module Slot 1	Certified 4P-Series Gas Sensing Head
MPS	Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Certified MPS Gas Sensor
DuoIQ Compact X-Modules			
Dual Toxic / O2	Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Electrochemical Toxic or Oxygen Sensor*
		X-Module Slot 2	Electrochemical Toxic or Oxygen Sensor*
Toxic / O2 + Pellistor SGX	Ex da ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Electrochemical Toxic or Oxygen Sensor*
		X-Module Slot 2	Certified SGX Pellistor Catalytic Flammable Gas Sensor
DuoIQ 4-Series X-Modules			
Toxic / O2 + Pellistor – 4P75	Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +55°C)	X-Module Slot 1	Certified 4P-Series Gas Sensing Head
		X-Module Slot 2	Electrochemical Toxic or Oxygen Sensor*
Toxic / O2 + MPS	Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)	X-Module Slot 1	Certified MPS Gas Sensor
		X-Module Slot 2	Electrochemical Toxic or Oxygen Sensor*

* The Toxic/O₂ electrochemical gas sensors that can be fitted to the Electrochemical Toxic or Oxygen Sensor X-Module may only be replaced with another from a defined range.

Conditions of Manufacture

1. The products covered by this certificate incorporate the following previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with

Annexe to: IECEx CSAE 25.0043X Issue 0

Applicant: Crowcon Detection Instruments Limited



Apparatus: UnoIQ & DuoIQ Portable Battery Powered Gas Detectors

these devices, and the manufacturer shall inform CSA of any modifications of the devices that may impinge upon the explosion safety design of their products:

Equipment	Manufacturer	Certificate	Marking	Applicable Standards
Catalytic Gas Sensor SGX MP-7227-DA	SGX Europe Sp. Z o.o	IECEX OBAC 18.0001U	Ex da IIC Ga (-40°C to +60°C)	IEC 60079-0 :2017 Ed.7 & IEC 60079-1 :2014 Ed.7
MPS Flammable Gas Sensor Models MPS-aaa-bb23dd-ef, MPS-aaa-bb24dd-ef, MPS-aaa-bb25dd-ef or MPS-aaa-bb34dd-ef	Nevada Nanotech Systems Inc.	IECEX FMG 19.0028U	Ex ia IIC Ga & Ex ia IIIC Da (-40°C to +75°C)	IEC 60079-0 :2017 Ed.7 & IEC 60079- 11 :2011 Ed.6
4P Series Gas Sensing Head - 4P75C	City Technology Ltd	IECEX SIR 04.0013X	Ex da IIC T6 Ga (-20°C to +40°C – 1.0W) Ex da IIC T5 Ga (-20°C to +55°C – 0.5W) Ex db IIC T4 Gb (-20°C to +55°C – 1.5W)	IEC 60079-0 :2017 Ed.7 & IEC 60079-1 :2014 Ed.7

2. In accordance with IEC 60079-11:2011 clause 6.6.1, each manufactured item shall be subjected to an inspection of the encapsulated areas of the product. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition or failure of adhesion or softening.

Date: 03 December 2025

Page 2 of 2

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