



EU-TYPE EXAMINATION CERTIFICATE

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **CSANe 25ATEX1122X** Issue: **0**

Equipment: **UnoIQ & DuoIQ Portable Battery Powered Gas Detectors**

Manufacturer: **Crowcon Detection Instruments Limited**

Address: 172 Brook Drive, Milton Park
Abingdon
Oxfordshire
OX14 4SD
United Kingdom

This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018/AC:2020 EN 60079-1:2014 EN 60079-11 :2012

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II 1G or II 2G

Certification code dependent on sensors fitted.
See Product Description for Certification code

Tamb : -20°C ≤ Tamb ≤ +55°C or
Tamb : -20°C ≤ Tamb ≤ +60°C

Signed :

Title:

Senior Director of
Operations

Date: 03 December 2025



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SCHEDULE

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Description:

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.

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 / O ₂	II 1G Ex ia IIC T4 Ga (-20°C ≤ T _a ≤ +60°C)	X-Module Slot 1	Electrochemical Toxic or Oxygen Sensor*
Pellistor SGX	II 1G Ex da ia IIC T4 Ga (-20°C ≤ T _a ≤ +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	II 2G Ex db ia IIC T4 Gb (-20°C ≤ T _a ≤ +55°C)	X-Module Slot 1	Certified 4P-Series Gas Sensing Head
MPS	II 1G Ex ia IIC T4 Ga (-20°C ≤ T _a ≤ +60°C)	X-Module Slot 1	Certified MPS Gas Sensor



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DuoIQ Compact X-Modules			
Dual Toxic / O2	 II 1G 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	 II 1G 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	 II 2G 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	 II 1G 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.

16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	03 December 2025	R80219774A	The release of the prime certificate.

17 **Specific conditions of use** (denoted by "X" after the certificate number):

- 17.1 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.

18 **Essential health and safety requirements of Annex II** (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

- 19.1.1 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 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	OBAC 18 ATEX 0024U	I M1 Ex da I Ma II 1G Ex da IIC Ga (-40°C to +60°C)	EN IEC 60079-0 :2018 & EN 60079-1 :2014
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.	FM19ATEX0184U	II 1G Ex ia IIC Ga & II 1D Ex ia IIIC Da (-40°C to +75°C)	EN IEC 60079-0 :2018 & EN 60079-11 :2012
4P Series Gas Sensing Head - 4P75C	City Technology Ltd	Sira 01ATEX1205X	II 1/2G 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)	EN IEC 60079-0 :2018 & EN 60079-1 :2014

19.1.2 In accordance with EN 60079-11:2012 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.



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Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
P091-E-000260-CD-CERT	1 to 4	1	12 Nov 25	P091 Main PCB (Circuit Diagram)
P091-E-000260-PCB-CERT	1 to 8	1	12 Nov 25	P091 Main PCB (PCB Layout)
P091-E-000260-PL-CERT	1 of 1	2	12 Nov 25	P091 Main PCB (Certified Parts List)
P091-E-000311-CD-CERT	1 of 1	1	12 Nov 25	UnoDuoIQ Battery PCB (Circuit Diagram)
P091-E-000311-PCB-CERT	1 to 6	1	12 Nov 25	UnoDuoIQ Battery PCB (PCB Layout)
P091-M-004273-CERT	1 of 1	1	01 Dec 25	P091 Product Label
P091-M-004380-CERT	1 of 1	1	12 Nov 25	Sensor Tray GA - Compact
P091-M-004382-CERT	1 of 1	1	12 Nov 25	P091 Main Body GA
P091-M-004383-CERT	1 of 1	1	12 Nov 25	P091 GA - Compact
P091-M-004391-CERT	1 of 1	01	12 Nov 25	Front Case Moulded Assy
P091-M-004410-CERT	1 of 1	01	12 Nov 25	LIP Rechargeable Battery
P091-M-004413-CERT	1 of 1	01	12 Nov 25	Rear Case Moulded Assy
P091-M-004416-CERT	1 of 1	1	13 Nov 25	Sensor Tray GA - 4-Series
P091-M-004422-CERT	1 of 1	01	12 Nov 25	P091 GA – 4-Series
P091-M-004535-CERT	1 of 1	1	12 Nov 25	PCB Potting Procedures
P091-M-004621-CERT	1 of 1	1	12 Nov 25	Sensor Tray Printed Label
P093-E-000261-CD-CERT	1 of 1	2	12 Nov 25	X-Mod Toxic & O2 (Circuit Diagram)
P093-E-000261-PCB-CERT	1 to 8	2	12 Nov 25	X-Mod Toxic & O2 (PCB Layout)
P093-E-000261-PL-CERT	1 of 1	2	12 Nov 25	X-Mod Toxic & O2 (Certified Parts List)
P093-E-000264-CD-CERT	1 of 1	1	13 Nov 25	X-Module Pel, MPS(Circuit Diagram)
P093-E-000264-PCB-CERT	1 to 6	1	13 Nov 25	X-Module Pel, MPS (PCB Layout)
P093-E-000264-PL-CERT	1 of 1	1	13 Nov 25	X-Module Pel, MPS (Certified Parts List)
P093-E-000265-CD-CERT	1 of 1	1	12 Nov 25	X-Module Pell, MPS, PID (Circuit Diagram)
P093-E-000265-PCB-CERT	1 to 8	1	12 Nov 25	X-Module Pell, MPS, PID (PCB Layout)
P093-E-000265-PL-CERT	1 of 1	1	12 Nov 25	X-Module Pell, MPS, PID (Certified Parts List)
P093-E-000284-CD-CERT	1 of 1	1	12 Nov 25	X-Mod SGX Pell (Circuit Diagram)
P093-E-000284-PCB-CERT	1 to 8	1	12 Nov 25	X-Mod SGX Pell (PCB Layout)
P093-E-000284-PL-CERT	1 of 1	1	12 Nov 25	X-Mod SGX Pell (Certified Parts List)
P093-E-000289-CD-CERT	1 of 1	1	12 Nov 25	Uno / DuoIQ NFC Antenna (Circuit Diagram)
P093-E-000289-PCB-CERT	1 to 6	1	12 Nov 25	Uno / DuoIQ NFC Antenna (PCB Layout)
ENG-001621	1 to 5	1	12 Nov 25	Electrochemical Sensors – Certification Control Document

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