



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 25 ATEX1123X** Issue: **0**

Equipment: **DetectiveIQ**

Manufacturer: **Crowcon Detection Instruments Limited**

Address: 172 Brook Drive
Milton Park
Abingdon
Oxfordshire
OX14 4SD
UK

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 IEC 60079-11:2023 Ed 7

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 1 G
Ex ia IIC T4 Ga
or
Ex da ia IIC T4 Ga
Tamb : -20°C ≤ Tamb ≤ +55°C

Signed :

Title: Senior Director of Operations

Date: 05 December 2025



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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.

QD-1589 Issue Date: 2025-06-20

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SCHEDULE

14 **EU-Type Examination Certificate Number:** **CSANe 25 ATEX1123X** Issue: **0**15 **Description:**

The DetectiveIQ is a battery powered transportable gas detector for the detection of multiple gases. The equipment is able to be fitted with up to 6 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 comprises of an enclosure, a rechargeable lithium-iron phosphate battery pack, LCD display, LED indicators and sounders. It may also be fitted with a pump for the sampling of gases. The equipment is also fitted with Bluetooth Low Energy (BLE) communication for connection to mobile devices and BLE mesh for connection to other gas detection equipment.

The equipment comprises of an external enclosure surrounding an inner enclosure which contains the PCBAs. These enclosures are made of an ASA / PEBAX conductive plastic.

The equipment has two external connections, one for the connection to a charger, the other is an RS485 connection for configuration.

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

$U_m = 10.0V$ d.c

The RS485 connection must not be used in a hazardous area and is for use during manufacturing, test, repair or overhaul only.

List of Certified Components – ATEX

The following table lists details of the certified components fitted:

Product	Certificate Number	Standards
Certified SGX Pellistor Gas Sensor – SGX Europe Sp. Z o.o. – Catalytic Gas Sensor Type SGX VQ854MP2	OBAC18ATEX0024U	EN IEC 60079-0:2018 EN 60079-1:2014
Certified SGX Infra Red Gas Sensor – SGX Europe Sp. Z o.o. – IR Gas Sensor Type SGX INIRia or INIR2ia	OBAC22ATEX0196U	EN 60079-0:2018 EN 60079-11:2012
Certified PID Gas Sensor – Ion Science Ltd - MiniPID or IonPID Range	Baseefa07ATEX0060U	EN IEC 60079-0:2018 EN 60079-11:2012
Certified MPS Flammable Gas Sensor – Nevada Nanotech Systems Inc.	FM19ATEX0184U	EN IEC 60079-0:2018 EN 60079-11:2012

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	05 December 2025	R80230666A	The release of the prime certificate.

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

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- 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 the following parameter:

Charger Connector

Um = 10.0V d.c

- 17.2 The RS485 connection must not be used in a hazardous area and is for use during manufacturing, test, repair or overhaul only.

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 encapsulation utilised in the battery module and the printed circuit board assemblies shall be subjected to routine verification according to Clause 10.4 of IEC 60079-11:2023.



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Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
P094-E-000266-CD-CERT	1 of 1	4	05 Dec 25	P094 Battery Safety PCB – Circuit Diagram
P094-E-000266-PCB-CERT	1 to 7	2	05 Dec 25	P094 Battery Safety PCB – Printed Circuit Board Layout
P094-E-000266-PL-CERT	1 of 1	4	05 Dec 25	P094 Battery Safety PCB – Certified Parts List
P094-E-000269-CD-CERT	1 and 2	1	05 Dec 25	TAM Detective – LED Indicator PCB – Schematics
P094-E-000269-PCB-CERT	1 of 1	1	05 Dec 25	TAM Detective - LED Indicator PCB – Printed Circuit Board Layout
P094-E-000269-PL-CERT	1 of 1	1	05 Dec 25	TAM Detective - LED Indicator PCB – Certified Parts List
P094-E-000270-CD-CERT	1 to 16	1	05 Dec 25	TAM Detective – Main Board - Schematics
P094-000270-PCB-CERT	1 to 5	1	05 Dec 25	TAM Detective – Main Board - Printed Circuit Board Layout
P094-000270-PL-CERT	1 to 3	1	05 Dec 25	TAM Detective – Main Board – Certified Parts List
P094-E-000271-CD-CERT	1 to 8	1	05 Dec 25	TAM Detective – Sensor Board - Schematics
P094-E-000271-PCB-CERT	1 to 2	1	05 Dec 25	TAM Detective – Sensor Board - Printed Circuit Board Layout
P094-E-000271-PL-CERT	1 to 3	1	05 Dec 25	TAM Detective – Sensor Board – Certified Parts List
P094-E-00271-PL-SENSORS	1 of 1	1	05 Dec 25	TAM Detective – Certified Sensor List
P094-E-000272-CD-CERT	1 to 14	1	05 Dec 25	TAM Detective – Backplane PCB – Schematics
P094-E-000272-PCB-CERT	1 to 5	1	05 Dec 25	TAM Detective – Backplane PCB – Printed Circuit Board Layout
P094-E-000272-PL-CERT	1 to 4	1	05 Dec 25	TAM Detective – Backplane PCB – Certified Parts List
P094-E-000288-CD-CERT	1 and 2	1	05 Dec 25	TAM Detective – Pump Interface – Schematics
P094-E-000288-PCB-CERT	1 of 1	1	05 Dec 25	TAM Detective – Pump Interface – Printed Circuit Board Layout
P094-E-000288-PL-CERT	1 to 2	1	05 Dec 25	TAM Detective – Pump Interface – Certified Parts List
P094-M-004438	1 to 9	1	05 Dec 25	Certification GA – DetectiveIQ
P094-M-004629	1 to 4	1	05 Dec 25	Certification Battery
P094-M-004613	1 of 1	01	05 Dec 25	Certification Label

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