



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 25.0044X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2025-12-05\)](#)

Date of Issue: 2026-05-19

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

Equipment: **DetectiveIQ**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T4 Ga
or
Ex da ia IIC T4 Ga
-20 °C ≤ Tamb ≤ 55°C

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





IECEx Certificate of Conformity

Certificate No.: **IECEx CSAE 25.0044X**

Page 2 of 4

Date of issue: 2026-05-19

Issue No: 1

Manufacturer: **Crowcon Detection Instruments Limited**
172 Brook Drive
Milton Park
Abingdon
Oxfordshire
OX14 4SD
United Kingdom

Manufacturing
locations: **Crowcon Detection Instruments
Limited**
172 Brook Drive
Milton Park
Abingdon
Oxfordshire
OX14 4SD
United Kingdom

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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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 Reports:

[GB/CSAE/ExTR25.0090/00](#)

[GB/CSAE/ExTR26.0032/00](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: **IECEx CSAE 25.0044X**

Page 3 of 4

Date of issue: 2026-05-19

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

For full description see annexe

Conditions Of Manufacture

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.

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 the following parameter:

Charger Connector

$U_m = 10.0V$ d.c

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



IECEx Certificate of Conformity

Certificate No.: **IECEx CSAE 25.0044X**

Page 4 of 4

Date of issue: 2026-05-19

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. The following name and address, which was specified as a manufacturing location, is removed: Industrial Systems Group (ISG), 12th Street 2nd industrial city, Dammam 31411, Saudi Arabia.

Annex:

[IECEx CSAE 25.0044X Iss 1 Annexe.pdf](#)

Annexe to: IECEx CSAE 25.0044X Issue 1

Applicant: Crowcon Detection Instruments Limited

Apparatus: DETECTIVEIQ



EQUIPMENT (continued)

List of Certified Components – IECEx

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	IECEX OBAC 18.0001U	IEC 60079-0:2017 Ed.7 IEC 60079-1:2014 Ed.7
Certified SGX Infra Red Gas Sensor – SGX Europe Sp. Z o.o. – IR Gas Sensor Type SGX INIRia or INIR2ia	IECEX OBAC 20.0006U	IEC 60079-0:2017 Ed.7 IEC 60079-1:2014 Ed.7 IEC 60079-11:2011 Ed.6
Certified PID Gas Sensor – Ion Science Ltd - MiniPID or IonPID Range	IECEX BAS 07.0030U	IEC 60079-0:2017 Ed.7 IEC 60079-11:2011 Ed.6
Certified MPS Flammable Gas Sensor – Nevada Nanotech Systems Inc.	IECEX FMG 19.0028U	IEC 60079-0:2017 Ed.7 IEC 60079-11:2011 Ed.6