CERTIFICATE OF CONFORMITY

FM Approvals

1. **EQUIPMENT CERTIFICATE OF CONFORMITY PER US REQUIREMENTS FOR EXPLOSIVE ATMOSPHERES**
2. **Certificate No:** **FM25US0267X**
3. **Equipment:** **XgardIQ Gas Detector**
   (Type Reference and Name)
4. **Name of Listing Company:** **Crowcon Detection Instruments Ltd**
5. **Address of Listing Company:** **172 Brook Drive,**
   Milton Park,
   Abingdon,
   Oxfordshire,
   OX14 4SD,
   United Kingdom
6. The examination and test results are recorded in confidential report number:

   PR470823 dated 7th May 2026

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

   FM 3810:2021, FM 6310, 6320:2024, FM 6340:2022, ANSI/FM/UL 60079-29-1:2019 (R2023), ANSI/FM/UL 62990-1:2023, ANSI/UL 60079-0:2020 (R2024), ANSI/UL 60079-1:2020 (R2024), ANSI/UL 60079-11:2018, ANSI/UL 61010-1:2024

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Approval Guide Listing Category:

    Gas Detection, Combustible Gas, Fixed
    Gas Detection, Toxic Gas Detectors, Fixed

Certificate issued by:

J.E. Marquedant

05/07/2026

J.E. Marquedant
VP, Manager - Electrical Systems

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

11. Equipment Ratings:

    Class I, Zone 1, AEx db ia IIC T4 Gb hazardous (classified) locations. Ambient temperature range is -40°C to +75°C.

12. The marking of the equipment shall include:

CL I, Zone 1, AEx db ia IIC T4 Gb;
Ta = -40°C to +75°C
60079-29-1
FM 6340
62990-1 Type SM

13. **Description of Equipment:**

    The XgardIQ Gas Detector consists of a transmitter and an integral or remote gas detection sensor. The transmitter's flameproof enclosure is stainless steel with a threaded cover and three M20 or 1/2" NPT cable entries. The OLED display and sensor modules are Intrinsically Safe.

    Model Code Options:

    XIQ-ZZ-a-013-b-c-d, XgardIQ
    a = Cable Entry: S1 or S2
    b = HART: Z or H
    c = Relay: Z or R
    d = Not relevant to safety

    Specifications – The manufacturer's specifications are as follows:

Sensor Type:	See Sensor Table
Gases:	See Sensor Table
Range:	See Sensor Table
Installation:	Fixed
Sampling Type:	Diffusion
Accuracy:	±2 %FS
Response Time:	See Sensor Table
Operating Temperature:	Transmitter: -40°C to +70°C Sensor: See Sensor Table
Storage Temperature:	With Flammable Sensor: -30°C to +70°C With Toxic Sensor: -25°C to +60°C

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Relative Humidity:	0 to 95% RH
Supply Parameters:	14-30 Vdc, 4W maximum
Safety Related Measurement Signal:	Display, 4-20mA, Relay, RS-485
Alarms:	LED, 4-20mA, Relay, RS-485
Ingress Protection (Verified for Performance):	With Flammable Sensor: IP64, splash guard required With Toxic Sensor: IP66, splash guard required
Firmware:	Transmitter: i1.09 Sensor: See Sensor Table

Sensor Table – Sensors permitted for use with the XgardIQ Gas Detector:

Part Number	Gas	Range	Response Time	Sensor Type	Operating Temperature	Firmware
XIQ-FA	Methane (CH_4)	0-100 %LFL (4.4% vol)	t(90) ≤ 25 sec	Pellistor	-40°C to +75°C	i1.08
XIQ-FC		0-100 %LFL (5% vol)				
XIQ-FB	Propane (C_3H_8)	0-100 %LFL (1.7% vol)	t(90) ≤ 35 sec			
XIQ-FD		0-100 %LFL (2.1% vol)				
XIQ-FT	Hydrogen Sulfide (H_2S)	0-100 ppm	t(90) ≤ 40 sec	Electrochemical	-30°C to +70°C	i1.08

Accessories - The following accessories are included in the Approval:

S012323	Calibration Cap
C01001	Pipe Mounting Kit
S012339	Sun Shade
S012322	Splash Guard
S012325	Remote Sensor Cable Assembly (5 m)

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S012331	Remote Sensor Cable Assembly (15 m)

14. **Specific Conditions of Use:**

    1. Refer to instruction manual for guidance to minimize the risk from electro-static discharge.
    2. A conduit seal shall be applied within 50mm of the enclosure.
    3. The ambient temperature range of the equipment is dependent on the sensor fitted. Refer to the Sensor Table of the certificate of conformity for the applicable ambient temperature range.
    4. For outdoor installations, the splash guard is required to maintain the ingress protection and validity of performance.

15. **Test and Assessment Procedure and Conditions:**

    This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

16. **Schedule Drawings**

    A copy of the technical documentation has been kept by FM Approvals.

17. **Certificate History**

    Details of the supplements to this certificate are described below:

Date	Description
7 May 2026	Original Issue.

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