

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 16 ATEX 7908 X

Issue: 01

- (4) Equipment: **Gas Detector / type XGard Bright**
- (5) Manufacturer: **Crowcon Detection Instruments Ltd.**
- (6) Address: **172 Brook Drive, Milton Park, Abingdon, Oxfordshire, OX14 4SD, United Kingdom**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex7908.01/16
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-31:2014
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex db IIC T6 Gb



II 2 D Ex tb IIIC T80°C Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-01-24



This EU-Type Examination Certificate without signature and stamp shall not be valid.

This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
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(13) Annex

(14) **EU Type Examination Certificate**
TÜV 16 ATEX 7908 X Issue: 01

(15) Description of equipment

15.1 Equipment and type:

Gas Detector
Model name: XGard Bright

15.2 Description / Details of Change

General product information

XGard Bright gas detector is for fixed installation.

The XGard Bright gas detector has a flameproof enclosure, it comprises an aluminium alloy base and threaded top cover (material ADC12). On the base there are a thread gas sintered metal elements and detector housing, and cable entry ports. There are four PCB boards: terminal PCB board, display PCB board, main PCB board and sensor PCB board are fixed in the base.

There are two M20*1.5 entry ports on the surface of the base. One entry port used for power supply (by ATEX/IECEx certified cable gland), other one maybe install alarm device or connect with other external devices. The unused entry port shall be blocked by ATEX/IECEx certified solid plug with minimum IP66 ingress protection.

The XGard Bright gas detector is available with either flammable, toxic or oxygen gas sensor modules which are installed within the base (flameproof enclosure). The sensor modules consist of the sensor and sensor holder, the different sensor holder used to fix the different sensor type.

IP65 rating for Products without Weather Proof Cap Assembly, IP66 rating for product with Weather Proof Cap Assembly.

Details of change

1. Tamb was changed from -40°C~+60°C to -40°C~+70°C
2. Adhesive used on the cemented joint was changed from type 3M DP-100 to type 3M DP-100Plus and type LOCTITE Hysol® E-40EXP.
3. Added M20-1/2"NPT adapter as option.
4. Optional ferrite fitted or not.
5. Added type of protection "tb".

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6. The model name of gas detector was changed from "XgardID" to "XGard Bright".

Technical Data

Electrical data

10~30VDC / 0~100mA / 3W Max

Environmental data

Tamb:-40°C ~+70°C

IP Rating:IP65(without weather proof cap assembly) / IP66(with weather proof cap assembly)

(16) Test-Report No. GC/Ex7908.01/16

(17) Special Conditions for safe use

1. The flameproof properties of the enclosure shall be maintained when an external alarm device is used. The alarm device shall be protected with appropriate type of protection.
2. Only the cables which are specified in the user manual can be used.
3. The external earthing should be considered and installed according to user manual before use.
4. The only suitable certified cable gland with minimum IP66 level should be used for installation purpose by end user.
5. Unused cable entries must be sealed using an ATEX/IECEX Ex db and Ex tb certified stopping plug with minimum IP66 ingress protection.
6. WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
7. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-01-24



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