

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**  
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**  
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Type Examination Certificate Number: **ExVeritas 21UKEX0914X** Issue: **1**

6 Product: 102 Series Enclosure

7 Manufacturer: Oliver IGD Ltd. (International Gas Detectors)

8 Address: Triton House, Crosby St,  
9 Stockport, SK2 6SH, UK

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

11 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations.

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

**EN IEC 60079-0: 2018**

**EN 60079-1:2014**


**EN 60079-31:2014**


Except in respect of those requirements listed at section 16 of the schedule to this certificate.

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 TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 2 G Ex db IIC T\* Gb

 II 2 D Ex tb IIIC T\* Db

*Temperature class dependent upon ambient, see description.*



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET  
Managing Director

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ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

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## Schedule

### 13 Description of Product

The 102 Series Enclosure can be used to form either:

- a 102 Optical Assembly, maximum power dissipation 2W; this unit utilises a glass window insert and is fitted with an optical unit e.g. camera.
- a 102 Gas Detector Assembly, maximum power dissipation 2W; this unit utilises a sintered element insert and is fitted with a gas sensor.

The 102 Series Enclosure consists of stainless steel body and insert. These two items are retained by a circlip and connected by a threaded flame path. Whilst the body is a generic item, there are two types of insert; one incorporates a glass window (102 Optical Assembly) and the other a sintered element (102 Gas Detector Assembly). Both the glass window and sintered element are cemented in position. The window is also fitted with a backing ring and circlip.

The rear of the body incorporates a cemented bushing assembly. This allows the passage of permanently connected cable from the inside to the outside of the enclosure. The permanently connected cable is intended to be terminated within a suitably certified enclosure.

#### **T102 Optical Assembly**

Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$

#### **T102 Gas detector**

Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Ex db IIC T5 Gb  
Ex tb IIIC T100°C Db  
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$

### 13.1 Details of change

Issue 1

The following changes are incorporated in issue 1 of the certificate:

- To allow the length of the 102 Series enclosure to be increased to allow inclusion of alternative electronics within the housing.

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3056/A/1	2021.06.18	0	Initial issue of the Prime Certificate
R3557/A/1	2021-11-26	1	Issue of the first variation, section 13.1 details.

#### 14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
T102 Engraving Detail	3449701	7	09.06.21
T102 Engraving Detail Camera Version	3449702	6	18.06.21
Toxic Sensor Concept Drawing Sheet 1 of 2	TOX-1-002	2	2016.10.10
Toxic Sensor Concept Drawing Sheet 2 of 2	TOX-1-002	2	2016.10.10
T102 HOUSING 7S PID VARIANT	TOX-102-005	ISS 1	11/11/2021

Certificate: **ExVeritas 21UKEX0914X**

Issue 1

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### 15 Specific Conditions of Use

#### 15.1 Special Conditions for Safe Use

- The free end of the permanently connected cable shall be protected in accordance with EN IEC 60079-0:2018 Clause 14.
- In accordance with EN 60079-1:2014 Annex C, the rear end of the bushing shall be protected by fitting into a suitably certified enclosure. In addition, the bushing shall not be subjected to torque during installation or operation.
- The product shall not be connected to portable equipment.
- The product fitted with a window has been subjected to reduced risk impact tests as detailed in EN IEC 60079-0:2018 Clause 26.4.2, as such it shall only be installed in areas of low risk of mechanical damage.
- The product shall be earthed in accordance with EN IEC 60079-0:2018 Clause 15 when fitted to a suitably certified enclosure.
- The flameproof joints employed in the equipment are not intended to be repaired.

#### 15.2 Routine tests

- None

### 16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the ExVeritas of any modifications to the design of the product described by this schedule.