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UNITED KINGDOM CONFORMITY ASSESSMENT

# UK-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres –  
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination Certificate No: FM21UKEX0025X

4 Equipment or protective system: Gassonic Observer-H Acoustic Gas Leak Detector  
(Type Reference and Name) Observer-i Acoustic Gas Leak Detector

5 Name of Applicant: General Monitors Inc

6 Address of Applicant: 16782 Von Karman Ave.  
Unit 14  
Irvine CA  
92606  
United States

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Ltd, Approved Body number 1725, 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), 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.  
The examination and test results are recorded in confidential report number:

3040159EC – R229755 dated 12<sup>th</sup> January 2022

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, EN 60079-31:2014  
and EN 60529:1991+A1:2000+A2:2013

10 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.

11 This UK-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance with the Regulations. 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 or protective system shall include:



II 2 G Ex db ia IIB+H<sub>2</sub> T6 Gb Ta = -40°C to +60°C

II 2 D Ex tb IIIC T85°C Db Ta = -40°C to +60°C



Digitally signed by Victor Aluko-Oginni  
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Foxit PhantomPDF Version: 10.1.5

**Victor Aluko-Oginni**  
Certification Manager, FM Approvals Ltd.

Issue date: 9<sup>th</sup> February 2022

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

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F UKEX 020 (Jan/21)



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# **SCHEDULE**

to UK-Type Examination Certificate No. FM21UKEX0025X

## **13 Description of Equipment or Protective System:**

The Gassonic Observer-H Gas Leak Detector and the Observer-i Gas Leak Detector are stationary ultrasonic gas leak detectors that detect leaks from pressurized gas systems by sensing the airborne ultrasound generated by the escaping gas. This detection method is omni-directional. A microphone picks up the whistling sound of a leak and turns it into a signal. There is a transducer in the stainless-steel enclosure which acts as a test source for the detector. The apparatus is built into a semi-spherical stainless-steel enclosure with a circular indicator window. The microphone and the transducer are mounted outside the main enclosure. A guard protects the microphone from impact.

The enclosure has an ingress protection rating of IP66.

The optional configurations cover a HART® interface and alternative connections facilities.

Electrical ratings:

U = 15 – 36 Vdc

Um = 250 Vrms

### **805501-a Gassonic Observer-H Acoustic Gas Leak Detector**

a = configuration 4 or 8

### **805701-a Observer-i Acoustic Gas Leak Detector**

a = configuration 1, 2, 3, or 4

## **14 Specific Conditions of Use:**

1. The Class A4-70, M6 x 1 x 20 bolts connecting the bulkhead flanges must be tightened at 9 Nm.
2. Consult the manufacturer if dimensional information on the flameproof joints is necessary.

## **15 Essential Health and Safety Requirements:**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the confidential report identified in item 8.

## **16 Test and Assessment Procedure and Conditions:**

This UK-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for UKCA Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Regulations in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's UKCA Certification Scheme.

## **17 Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Approved Body.

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## **SCHEDULE**



Member of the FM Global Group

to UK-Type Examination Certificate No. FM21UKEX0025X

### 18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
9 <sup>th</sup> February 2022	Original Issue.

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