



# 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](http://www.iecex.com)

Certificate No.: **IECEX CML 23.0016X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-05-24

Applicant: **General Monitors Inc**  
16782 Von Karman Ave.  
Unit 14  
Irvine, CA 92606  
**United States of America**

Equipment: **TL105 Test Lamp for Flame Detection**

Optional accessory:

Type of Protection: **Flameproof Ex "db" and Dust Protection by Enclosure Ex "tb"**

Marking: Ex db IIB+H, T4 Gb  
Ex tb IIIC T110°C Db  
Ta = -15 °C to +50°C

Approved for issue on behalf of the IECEx  
Certification Body:

**L A Brisk**

Position:

**Assistant Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

23 May 2023

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.
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Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
**United Kingdom**





# IECEX Certificate of Conformity

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Date of issue: 2023-05-24

Issue No: 0

Manufacturer: **General Monitors**  
Ballybrit Business Park  
Galway  
**Ireland**

Manufacturing locations: **General Monitors**  
Ballybrit Business Park  
Galway  
**Ireland**

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 Report:

[GB/CML/ExTR23.0032/00](#)

Quality Assessment Reports:

[GB/CML/QAR22.0009/00](#)

[US/UL/QAR10.0004/10](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX CML 23.0016X**

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Date of issue: 2023-05-24

Issue No: 0

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The TL105 test lamp is a battery-operated, rechargeable test lamp that has a rated output of 12 VDC 130 W max and is used for UV, UV/IR or digital frequency IR flame detection systems.

**See Annex for full description and Conditions of Manufacture.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

**See Annex for Specific Conditions of Use.**

**Annex:**

[Certificate Annex IECEx CML 23.0016X\\_1.pdf](#)

**Annexe to:** IECEx CML 23.0016X Issue 0  
**Applicant:** General Monitors Inc. General Monitors (Ireland) Ltd  
**Apparatus:** TL105 Test Lamp for Flame Detection

### Description

The TL105 test lamp is a battery-operated, rechargeable test lamp that has a rated output of 12 VDC 130 W max and is used for UV, UV/IR or digital frequency IR flame detection systems. It is constructed from cast aluminium alloy, and incorporates a control board and Nickel Metal Hydride battery assembly that perform the equipment’s measuring function. The enclosure utilises a 4½-16 UN–2A/2B thread at one end to fit a lamp cap assembly, it also incorporates a PG 9 threaded aluminium stopping plug to gain access to a jack plug and a PG 11 threaded aluminium piezo switch. The enclosure and lamp assembly are secured against loosening by a 5/64” Hex drive socket screw and the complete assembly meets the ingress protection requirements of IP 6X. The lamp cap assembly contains a sapphire window and is secured against loosening by a 4⅛-16 UNF –2A/2B threaded aluminium retainer.

### Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

### Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The flameproof joint width between the window and flange is other than the minimum value detailed in EN 60079-1, the value is as follows:

Location/Type	Width L (mm)
Window/Flange	15.9

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