



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: **2010-03-23** Page 1 of 3

Applicant: **General Monitors Ireland**
Ballbrit Business Park
Galway
Ireland

Electrical Apparatus: **FL310* Flame Detector**
Optional accessory:


Type of Protection: **Flameproof and Dust**

Marking: **Ex d IIC T5 Gb**
Ex t IIIC T100°C Db
Ta = -40°C to +85°C

Approved for issue on behalf of the IECEx
Certification Body: **C Ellaby**

Position: **Certification Officer**

Signature:
(for printed version)



2010-03-23

Date:

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:
SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx SIR 09.0080

Date of Issue: 2010-03-23

Issue No.: 0

Page 2 of 3

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

Manufacturing location(s):

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 electrical apparatus 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 : 2007-10
Edition: 5 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1 : 2007-04
Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2008
Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |

This Certificate does not indicate compliance with electrical 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/SIR/ExTR10.0055/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0014/01](#)



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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The FL310* Flame Detectors are ultraviolet/infrared devices. They comprise a rectangular base and a cylindrical cover secured by four M6 grade A2-70 hexagon socket-head bolts. The base contains two M20 x 1.5 cable entry points for the fitting of suitable cable entry devices on one side-wall. The cover, dependent on the model type, contains a combination of circular, sapphire or quartz, window and light rod options

Design options

The FL310* Flame Detectors may utilise the following cable entry threadforms:

M25 x 1,5

¾" 14 NPT

PG 13.5

The Manufacturer shall comply with the following condition of manufacture:

1. Each FL310* Flame Detector enclosure shall be subjected to a routine overpressure at 20.5 bar in accordance with IEC 60079-1 clause 16. There shall be no permanent deformation or damage or leakage through the enclosure walls

CONDITIONS OF CERTIFICATION: NO