



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

Certificate No.:	IECEx FMG 11.0006X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2022-01-12)
Date of Issue:	2024-07-09		Issue 3 (2021-07-29)
Applicant:	Mine Safety Appliances Company 1000 Cranberry Woods Drive Cranberry Township, PA 16066 United States of America		Issue 2 (2021-02-23)
Equipment:	OPEN PATH COMBUSTIBLE IR GAS DETECTOR consisting of ULTIMA OPIR-5 SOURCE and ULTIMA OPIR-5 RECEIVER		Issue 1 (2016-12-27)
Optional accessory:			Issue 0 (2011-04-20)
Type of Protection:	Flameproof Ex d and Dust Ignition Protection by Enclosure Ex t		
Marking:	Ex db IIB+H2 T4 Gb Ta = -55°C to 65°C Ex tb III C T135°C Db Ta = -55°C to 65°C		

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America





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

Manufacturing
locations:

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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-29-4:2009 Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases
Edition:1.0

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 Reports:

US/FMG/ExTR10.0013/00
US/FMG/ExTR10.0013/04
US/FMG/ExTR10.0013/09
US/FMG/ExTR14.0003/02
US/FMG/ExTR14.0003/05

US/FMG/ExTR10.0013/01
US/FMG/ExTR10.0013/05
US/FMG/ExTR14.0003/00
US/FMG/ExTR14.0003/03
US/FMG/ExTR14.0003/06

US/FMG/ExTR10.0013/03
US/FMG/ExTR10.0013/08
US/FMG/ExTR14.0003/01
US/FMG/ExTR14.0003/04
US/FMG/ExTR14.0003/07

Quality Assessment Report:

US/UL/QAR10.0004/11



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

OPEN PATH COMBUSTIBLE IR GAS DETECTOR consisting of ULTIMA OPIR-5 SOURCE and ULTIMA OPIR-5 RECEIVER

ULTIMA OPIR-5 Receiver:

329000-a

a: Output & Terminals -17 through -24

ULTIMA OPIR-5 Source:

329001-a

a: Range & Terminals 3, 4, 7, 8, 11, 12, 15, 16

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Consult the manufacturer for dimensional information on the flameproof joints for repair.
2. Potential electrostatic charging hazard – use only damp cloth for cleaning.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Editorial changes to manual and label and change of 1 component which does not affect original evaluation.