



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 08.0003X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2023-01-26)
Date of Issue:	2023-11-21		Issue 3 (2021-10-15)
Applicant:	Mine Safety Appliances Co. 1000 Cranberry Woods Drive Cranberry Township, PA 16066 United States of America		Issue 2 (2013-01-23)
Equipment:	Ultima XIR Sensor, Ultima XE Sensor with toxic/oxygen depletion sensor element		
Optional accessory:	Ultima XE Sensor Weather/Wind/Sensor Guard P/N 10028904, Ultima XIR Environmental Guard P/N 10041265		
Type of Protection:	Construction, Test and Marking of type of protection "d"		
Marking:	Ultima XE Sensor: Ex db IIC T4 Gb Ta = -40°C to +60°C IP66 IECEx FMG 08.0003X Ultima XIR Sensor: Ex db IIC T5 Gb Ta = -40°C to +60°C IP66 IECEx FMG 08.0003X		

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
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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Date of issue: 2023-11-21

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Manufacturer: **Mine Safety Appliances Co.**
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
United States of America

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

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/ExTR07.0004/00
US/FMG/ExTR08.0007/01
US/FMG/ExTR08.0007/04

US/FMG/ExTR07.0011/00
US/FMG/ExTR08.0007/02

US/FMG/ExTR08.0007/00
US/FMG/ExTR08.0007/03

Quality Assessment Report:

FR/INE/QAR08.0011/13



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Ultima XE Sensor

Ultima XIR Sensor

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) *The Ultima XE Sensor and the Ultima XIR Sensor shall be connected directly to a junction box or instrument suitable for the area of installation to provide protection for the flying leads.*



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Gap analysis for IEC 60079-0 from Ed 5 to Ed 6 and Ed 6 to Ed 7.

Gap analysis for IEC 60079-1 from Ed 5 to Ed 6 and Ed 6 to Ed 7.

Documentation Updates; minor label modifications were required as part of the standards update.

No changes to transmitter electronics or the sensor or transmitter/controller enclosures.

Ultima XIR Sensor was not evaluated as part of this project and remains at IEC 60079-0 Ed 5, IEC 60079-1 Ed 5.