



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.: IECEx FMG 08.0003X issue No.:1

Status: **Current**

Date of Issue: **2008-11-12**

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Certificate history:

Issue No. 1 (2008-11-12)

Issue No. 0 (2008-7-21)

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

Electrical Apparatus: **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 d IIC T4 Ta = -40°C to +60°C IP66
IECEX FMG 08.0003X
Ultima XIR Sensor:
Ex d IIC T5 Ta = -40°C to +60°C IP66
IECEX FMG 08.0003X**

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

David W. Styrcula

Position:

Technical Team Manager

*Signature:
(for printed version)*

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:

**FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America**





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

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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-1 : 2003 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
Edition: 5

*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:

[US/FMG/ExTR07.0004/00](#)
[US/FMG/ExTR07.0011/00](#)
[US/FMG/ExTR08.0007/00](#)

Quality Assessment Report:

[CA/CSA/QAR06.0001/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Ultima XE Sensor
Ultima XIR Sensor

CONDITIONS OF CERTIFICATION: 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):

Typographical errors. Moved Hart Module and Ultima XI Sensor to IECEx FMG 07.0006X CoC.