



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 CSA 14.0059 Issue No: 0 Certificate history:
Issue No. 0 (2014-12-06)

Status: **Current** Page 1 of 3

Date of Issue: **2014-12-06**

Applicant: **Sierra Monitor Corporation**
1991 Tarob Court
Milpitas, California
95035
United States of America

Electrical Apparatus: **Combustible Gas Sensor Module**
Optional accessory:

Type of Protection: **Ex d**

Marking:
Ex d IIB+H2 T5 Gb
Ta:-40C to +80C

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

Dorin Stochitoiu

Position:

Technical Advisor

*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:

CSA International
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada
and
1707 - 94th Street
Edmonton, AB T6N 1E6
Canada





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Manufacturer: **Sierra Monitor Corporation**
1991 Tarob Court
Milpitas, California
95035
United States of America

Additional 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

*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:

[CA/CSA/ExTR14.0066/00](#)

Quality Assessment Report:

[GB/FME/QAR12.0013/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Catalytic Bead Gas Sensor Module is comprised of an electronics and sensor enclosure assembly. The 5100-02-IT-AL comes standard with a flameproof cast aluminum electrical housing while the 5100-02-IT-SS comes with a 316 Stainless Steel version. Both housings are equipped with three conduit entries and an enclosure cover with a viewing window; conduit hubs can be either 3/4" FNPT or M20 metric threading. The Transmitter Electronics Assembly consists of printed circuit board assembly mounted to standoffs under a cover plate. The sensor assembly includes an explosion proof housing containing the gas sensor and a wiring harness for connection to the transmitter and is available in aluminum and 316 Stainless Steel versions. The sensor assembly threads into one of the 3/4" FNPT entries of the enclosure. The Sensor Electronics Assembly consists of a printed circuit board assembly which is held in place by the lower part of the housing and then fully potted from the entry side. The exposed end of the sensor assembly is threaded to allow connection of a rain-shield or calibration gas delivery fitting. Internal and external earthing facilities are provided.

CONDITIONS OF CERTIFICATION: NO