



# 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](http://www.iecex.com)

Certificate No.: IECEx CSA 14.0058 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, CA 95035  
**United States of America**

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

Type of Protection: **Ex d**

Marking:  
Ex d IIB+H2 T6 Gb  
Ta: -20C to +60C

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, CA 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/ExTR14.0067/00](#)

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 Infrared (IR) Gas Sensor Module is comprised of a transmitter electronics enclosure and a sensor enclosure, connected together to form the assembly. There are two models, the 5100-28-IT-AL which comprises a cast aluminum enclosure and the 5100-28-IT-SS which comprises a 316 Stainless Steel enclosure. Both enclosures are equipped with three entries and an enclosure cover with a viewing window. Entries may be either 3/4" FNPT or M20, for use with suitably certified Ex d IIB+H<sub>2</sub> Gb entry devices. The internal transmitter electronics assembly consists of printed circuit board assembly mounted to standoffs under a cover plate. The sensor assembly comprises a 316 Stainless Steel enclosure containing the gas sensor and a wiring harness for connection to the transmitter electronics. The sensor assembly enclosure threads into one of the 3/4" FNPT hubs of the main enclosure and the assembly consists of a potted printed circuit board assembly which is held in place by the lower part of the housing and a spacer. The sensor assembly additionally is externally threaded to allow connection of a rain-shield or calibration gas delivery fitting. Internal and external earthing facilities are provided.

**CONDITIONS OF CERTIFICATION: NO**