



# 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 LC 18.0010X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-02-28\)](#)

Status: **Current**

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Date of Issue: **2019-02-28**

Applicant: **Halogen Systems Inc.**  
919 Incline Way, Unit 11, Incline Village, NV 89451  
**United States of America**

Equipment: **Oxidant Sensor**

*Optional accessory:*

Type of Protection: **Ex db ib IIC T5 Gb**

Marking:

Ex db ib IIC T5 Gb  
24 V, 350 mA, Um = 250 V

-20°C ≤ Ta ≤ 55°C  
Maximum process temperature 40°C

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

Kavinder Dhillon, Eng.L

*Position:*

Certification 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](#).

Certificate issued by:

**LabTest Certification Inc.**  
205 - 8291 92 Street,  
Delta, British Columbia,  
V4G 0A4  
Canada





# IECEX Certificate of Conformity

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Manufacturer: **Halogen Systems Inc.**  
919 Incline Way, Unit 11, Incline Village, NV 89451 USA  
**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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/LC/ExTR18.0010/00](#)

Quality Assessment Report:

[CA/LC/QAR18.0002/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Model: EX-P-HT4 and EX-P-STD

The device is an oxidant sensor rated 24 V, 350 mA, made with a 316 stainless steel flameproof enclosure.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- Adjacent wiring compartment shall be IECEx certified (as applicable) complying with the connection facility and termination compartment requirements of IEC 60079-0. It shall be made of metal in order to provide external grounding for the sensor
- Flameproof joints are not intended to be repaired.
- The device shall be installed such that the epoxy at the supply wiring side and the non-metallic parts at the sensor head end are protected from ultraviolet (UV) light exposure.
- Do not open when an explosive atmosphere is present.
- Apparatus shall be supplied by a circuit of Overvoltage category II.
- Parts of the enclosure are non-conducting and exceed the maximum permissible resistance according to IEC 60079-0. Therefore, to avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth when installed/used within a potentially explosive atmosphere.