



# 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 14.0061X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 5 [Issue No. 1 \(2016-02-10\)](#)  
Date of Issue: **2016-02-10** [Issue No. 0 \(2014-11-17\)](#)

Applicant: **American Sensor Technologies, Inc.**  
450 Clark Dr., Mount Olive  
New Jersey 07828, USA  
**United States of America**

Electrical Apparatus: **Models AST4300, AST43LP Pressure Transducers**  
*Optional accessory:*

Type of Protection: **Ex nA**

Marking:  
Ex nA IIC T4 Gc  
Tamb:-40°C to+80°C  
Tproc:-40°C to+125°C

*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](#).

Certificate issued by:



# IECEx Certificate of Conformity

Certificate No: IECEx CSA 14.0061X

Issue No: 1

Date of Issue: 2016-02-10

Page 2 of 5

CSA Group  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada  
and  
1707 - 94th Street  
Edmonton, AB T6N 1E6  
and  
8503 East Pleasant Valley Road,  
Independence, Ohio, USA  
44131-5516  
Canada





# IECEx Certificate of Conformity

Certificate No: IECEx CSA 14.0061X Issue No: 1  
Date of Issue: 2016-02-10 Page 3 of 5  
Manufacturer: **American Sensor Technologies, Inc.**  
450 Clark Dr., Mount Olive  
New Jersey 07828, 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 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 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

*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/ExTR14.0064/00](#) [CA/CSA/ExTR14.0064/01](#)

Quality Assessment Report:

[CA/CSA/QAR14.0002/00](#)



# IECEx Certificate of Conformity

Certificate No: IECEx CSA 14.0061X

Issue No: 1

Date of Issue: 2016-02-10

Page 4 of 5

## Schedule

### EQUIPMENT:

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

Model AST43xx Series Pressure Transducers utilize a mechanical diaphragm to convert a mechanical pressure measurement into an electrical signal.

The subject pressure transducers enclosure consists of 3 parts welded to each other:

- i. the process connection fitting (media header) made from 17-4PH stainless steel or 316L stainless steel or Inconel or Hastelloy
- ii. the housing tube made of 304 stainless steel and
- iii. ½ MNPT conduit adapter stainless steel made filled with epoxy Stycast 2850FT/Cat 9

All models are provided with a 1/2" NPT, metal conduit fitting and up to 10 feet of cable for field wiring connections.

### CONDITIONS OF CERTIFICATION: YES as shown below:

- i. Models AST4300 and AST43LP Pressure Transducers are not earthed and a charge-generating mechanism may be present when in contact with non-metallic charge generating materials, the device shall be grounded before use.
- ii. The enclosure is manufactured from light metal. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a zone 2 location.
- iii. The product label indicates that the process temperature range is -40°C to +125°C, taking this into account, the user/installer shall take precautions that ensure that the operating service temperature of the overall pressure transducer assembly is between -40°C to 92°C.



# IECEX Certificate of Conformity

---

Certificate No: IECEx CSA 14.0061X

Issue No: 1

Date of Issue: 2016-02-10

Page 5 of 5

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1: Administrative correction to replace IEC 60079-0:2004(Ed.4) with IEC 60079-0:2011(Ed.6) because the initial assessment was conducted using IEC 60079-0:2011(Ed.6).