



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 15.0007X Issue No: 0 Certificate history:
Issue No. 0 (2015-04-16)

Status: **Current** Page 1 of 3

Date of Issue: **2015-04-16**

Applicant: **American Sensor Technology**
450 Clark Drive, Mount Olive, New Jersey 07828 USA
United States of America

Electrical Apparatus: **Pressure Transducers, Model 54E Series**
Optional accessory:

Type of Protection: **Ex d, Ex tb or Ex nA, Ex tc**

Marking:
Model 54ED : Ex d IIC T5 Gb, Ex tb IIIC T100°C Db
Model 54EN : Ex nA IIC T5 Gc, Ex tc IIIC T100°C Dc
Maximum Ambient Temperature: -40°C to 85°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:

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





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Manufacturer: **American Sensor Technology, Inc.**
450 Clark Drive, Mount Olive
New Jersey, USA, 07828
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR15.0013/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information: The 54E is a stainless steel media isolated Pressure Sensor intended for use in the measurement of gases and liquids compatible with stainless steel. The pressure transducer enclosure consists of 3 parts: sensing element, housing tube and conduit adapter. The construction of the sensing element may vary to provide pressure transducers rated up to 20000 psi.

Model Designation:

54Eabcdefghijk (-Z = CRN, SS, or other non-performance related) Where :

a (protection method) = D, N

b (fitting information) = A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, R, S, T, U, V, W, Z, X

c (pressure) = 00000 to 99999

d (pressure unit) = B, H, K, M, P

e (electrical outputs) = 1, 2, 3, 4, 5, 6, 8, 9, G, J, K, L, M, P

54ED: f (electrical connection) = T, U, W, X

54EN: f (electrical connection) = L, M, N, P X

g (header material) = 0, 1, 2, 3, 4, 6 h

(differential pressure) = 0000 to 9999

i (fault condition) = N, L, H

j,k (special calibration) = eg: tolerances

CONDITIONS OF CERTIFICATION: YES as shown below:

i. The product label indicates that the process temperature range is -40°C to $+125^{\circ}\text{C}$, 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 .

ii. Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build up of an electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and only clean with a damp cloth.

iii. The integral conductors shall be suitably mechanically protected and terminated in a suitably certified terminal or junction facility

iv. It is the user's responsibility to ensure that the earth continuity of the equipment is maintained via the mounting arrangement.

v. The enclosure is manufactured from light metal. In rare cases, ignition sources due to impact and friction sparks could occur and that shall be considered during installation.