



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX CSA 14.0061X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2022-11-14)
Date of Issue:	2023-05-10		Issue 2 (2019-03-25)
Applicant:	TE Sensores S de RL de CV A TE Connectivity Company Av. Obrero Mundial#9 Parque Industrial Dynatech Hermosillo Sonora 83174 Sonora Mexico		Issue 1 (2016-02-10)
Equipment:	Models AST4300, AST43LP Pressure Transducers		Issue 0 (2014-11-17)
Optional accessory:			
Type of Protection:	Increased Safety		
Marking:	Ex ec 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:

Dave Magee

Position:

Senior Director of Operations, Toronto

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





IECEX Certificate of Conformity

Certificate No.: **IECEX CSA 14.0061X**

Page 2 of 5

Date of issue: 2023-05-10

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Manufacturer: **TE Sensores S de RL de CV**
A TE Connectivity Company
Av. Obrero Mundial#9
Parque Industrial Dynatech
Hermosillo
Sonora 83174
Sonora
Mexico

Manufacturing locations: **TE Sensores S de RL de CV**
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Hermosillo
Sonora 83174
Sonora
Mexico

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[CA/CSA/ExTR14.0064/00](#)
[CA/CSA/ExTR14.0064/03](#)

[CA/CSA/ExTR14.0064/01](#)
[CA/CSA/ExTR14.0064/04](#)

[CA/CSA/ExTR14.0064/02](#)

Quality Assessment Report:

[CA/CSA/QAR23.0002/00](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX CSA 14.0061X**

Page 3 of 5

Date of issue: 2023-05-10

Issue No: 4

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. 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.
2. 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.
3. 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**

Page 4 of 5

Date of issue: 2023-05-10

Issue No: 4

Equipment (continued):

Conditions of Manufacture:

1. The equipment, at the conclusion of manufacture and before shipment, shall withstand for one minute, without breakdown, the application of the 500 Vac potential between extra low potential live parts and exposed non current carrying metal parts or ground terminal



IECEX Certificate of Conformity

Certificate No.: **IECEX CSA 14.0061X**

Page 5 of 5

Date of issue: 2023-05-10

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: – this Issue introduced the following change:

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).

Issue 2: – this Issue introduced the following change:

1. Assessment to the latest edition of IEC 60079-0 and to 60079-7 Edition 5.1 for changing to 'ec' protection method from 'nA', markings were updated accordingly. Minor drawing amendments, none of which affects compliance with the standards listed. Update manufacturer's name and address was updated from American Sensor Technology to Measurement Specialties Inc.

Issue 3: – this Issue introduced the following change:

1. Minor amendments to drawings.

Issue 4 – this Issue introduced the following change:

1. To recognise the change of Company Name and Address:
From: - Measurement Specialties Inc., A TE Connectivity Company, 6801 Kaiser Dr., Fremont, California 94555, United States of America
To: - TE Sensores S de RL de CV, A TE Connectivity Company, Av. Obrero Mundial #9, Parque Industrial Dynatech, Hermosillo Sonora 83174, Mexico