



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 14.0062X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 4 [Issue 3 \(2022-11-04\)](#)
Date of Issue: 2023-05-10 [Issue 2 \(2018-11-14\)](#)
[Issue 1 \(2016-02-08\)](#)
[Issue 0 \(2014-11-17\)](#)
Applicant: **TE Sensores S de RL de CV**
A TE Connectivity Company
Av. Obrero Mundial#9
Parque Industrial Dynatech
Hermosillo
Sonora 83174
Sonora
Mexico
Equipment: **AST4600, AST46HA, AST46PT and 46SW Series Pressure Transducers**
Optional accessory:
Type of Protection: **Flameproof and Dust Protection by Enclosure**
Marking: Ex db IIC T5 Gb
*Ex tb IIIC T100°C Db
Tamb = -40°C to +85°C
Tproc= -40°C to +125°C

* Models with suffix G or V not suitable for Zone 21(Dust) atmosphere

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





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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**
A TE Connectivity Company
Av. Obrero Mundial#9
Parque Industrial Dynatech
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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR14.0065/00](#)
[CA/CSA/ExTR14.0065/03](#)

[CA/CSA/ExTR14.0065/01](#)
[CA/CSA/ExTR14.0065/04](#)

[CA/CSA/ExTR14.0065/02](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The AST46XX Series' Pressure Transducers utilize a mechanical diaphragm to convert a mechanical pressure measurement into an electrical signal for use in the measurement of gases and liquids compatible with stainless steel. The transducers are manufactured as stainless steel sealed assemblies containing up to 2 PCBs.

The transducers consist of 3 parts:

- i. the sensing element;
- ii. the housing tube and;
- iii. a conduit entry connection(adapter) 1/2" MNPT made from stainless steel. A green ground (earth) conductor in both construction types (3, 4 or 5 lead wires sensors) is connected to the metallic housing.

The transmitters range in Maximum Working Pressure (MWP) rating up to 20000 psi. The physical construction of the Sensing Element varies in accordance with the pressure range.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. 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.
2. Under certain extreme circumstances, exposed plastic and unearthened 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 electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and clean with a damp cloth.
3. The integral conductors shall be suitably mechanically protected and terminated in a suitable terminal or junction facility.
4. It is the user's responsibility to ensure that the earth continuity of the equipment is maintained via the mounting arrangement.
5. 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.
6. External pressure on potted flying leads shall not exceed 30 bar maximum.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: – this Issue introduced the following change:

1. Correction to item "vi" of the Conditions of Certification regarding external pressure on flying leads. Lowering the external pressure value from 207 bar to 30 bar maximum.No change to the existing drawings.

Issue 2: – this Issue introduced the following change:

1. Update to the latest editions of applied standards; Minor amendment of documentation, none of which affect compliance with the standards; Change to the Applicant and Manufacturer's name and address.

Issue 3: – this Issue introduced the following change:

1. The changes under this issue include minor drawing amendments, updated model codes, and addition of a note for clarification of marking.

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