

## UNITED KINGDOM CONFORMITY ASSESSMENT

### 1 TYPE EXAMINATION CERTIFICATE

2 Equipment Intended for use in Potentially Explosive Atmospheres

**UKSI 2016:1107 (as amended)**

3 Certificate Number: **CSAE 21UKEX3190X** Issue: **1**

4 Product: **Models AST4300, AST43LP Series Pressure Transducers**

5 Manufacturer: **TE Sensores S de RL de CV  
A TE Connectivity Company**

6 Address: A TE Connectivity Company  
Av. Obrero Mundial #9  
Parque Industrial Dynatech  
Hermosillo Sonora 83174  
Mexico

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing UK Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018

Except in respect of those requirements listed at Section 16 of the schedule to this certificate.

The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:



II 3 G  
Ex ec IIC T4 Gc  
Ta = -40°C to +80°C



Name: Michelle Halliwell  
Title: Director of Operations



**SCHEDULE**

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**13 DESCRIPTION OF PRODUCT**

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. 1/2 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.

Models certified for Ex ec IIC	Ratings
AST4300***** (4)(L/M/N/P)**** -** (4-20 mA)	input rated 28 Vdc max
AST43LP***** (4)(L/M/N/P)**** -** (4-20 mA)	input rated 28 Vdc max
AST4300***** (1/M)(L/M/N/P)****_** (ratiometric output 0.5-4.5 V and 0.25-	input rated 5.5 Vdc max
AST43LP***** (1/M)(L/M/N/P)****_** (ratiometric output 0.5-4.5 V and 0.25-	input rated 5.5 Vdc max
AST4300***** (A/B/F)( L/M/N/P)****_** (5, 10 and 20	input rated 15 Vdc max
AST43LP***** (A/B/F)(L/M/N/P)**** -** (output rated 5, 10 and 20 mV/V)	input rated 15 Vdc max
AST4300***** (2/3/5/6/8/9/G/J/P)( L/M/N/P)****_** (output rated 0-5 V, 1-5 V, 0-10 V, 1-6 V, 0.5-5.5 V, 0.25-5 V, 1-10 V, 0.1-5.1 V, 0.5-4.5 V)	input rated 28 Vdc max
AST43LP***** (2/3/5/6/8/9/G/J/P)( L/M/N/P)****_** (output rated 0-5 V, 1-5 V, 0-10 V, 1-6 V, 0.5-5.5 V, 0.25-5 V, 1-10 V, 0.1-5.1 V, 0.5-4.5 V)	input rated 28 Vdc max

**Variation 1** - This variation introduced the following change:

- i. To recognise the change of Company Name and Address:

From	To
Measurement Specialties Inc. A TE Connectivity Company 6801 Kaiser Dr. Freemont California 94555 United States of America	TE Sensores S de RL de CV A TE Connectivity Company Av. Obrero Mundial #9 Parque Industrial Dynatech Hermosillo Sonora 83174 Mexico



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**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	02 November 2022	R80144831A	The release of the prime certificate.
1	10 May 2023	R80162238A	The introduction of Variation 1.

**15 SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 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.
- 15.2 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.
- 15.3 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.

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)**

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

**17 PRODUCTION CONTROL**

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 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.