

# **Confirmation of Product Type Approval**

Company Name: TE SENSORES S DE RL DE CV

Address: AVENIDA OBRERO MUNDIAL#9PARQUE INDUSTRIAL DYNATECHCOL. E SAHUARO CP

83174 Mexico

**Product: Pressure Sensor** 

Model(s): AST 4000, AST 5400, AST 4530 & AST 20HA

**Endorsements:** 

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2097701-PDA-DUP	04-MAR-2021	03-MAR-2026
Manufacturing Assessment (MA)	21-5000392	28-OCT-2021	27-OCT-2026
Product Quality Assurance (PQA)	NA	NA	NA

#### Tier

3 - Type Approved, unit certification not required

#### **Intended Service**

Marine & Offshore Application

#### **Description**

The AST 4000 Pressure Transducer covers a wide variety of application that requires rugged construction and high cycle life.

The AST 5400 Differential Pressure Transducer can measure line pressure up to 5,000 PSI (350 bar).

The AST 4530 Submersible Pressure Transducer measures harsh Liquid Levels;

The AST 20HA digitally compensated Pressure Transducer / Pressure Transmitter offers high performance over temperature.

Please refer to Manufacturer's Data Sheet Catalog for Model and Product Details

#### Ratings

For AŠT 4000, AST 5400, AST 4530 & AST 20HA please refer to the attached "pdf" Data Sheets for Electrical, Performance & Environmental Data;

## **Service Restrictions**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

These pressure transducers are suitable for safe non-hazardous area use only.

#### Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

#### **Notes, Drawings and Documentation**

Drawing No. Correspondence, T2083987 Client confirmation Email, Revision: -, Pages: -

### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 03/Mar/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

#### **ABS Rules**

Rules for Conditions of Classification, 2021 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2021 Rules for Building and Classing Marine Vessels Rules: 4-8-3/1.11.1;

Rules for Conditions of Classification, 2021 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2021 Rules for Building and Classing Mobile Offshore Units: 4-3-3/3.1.1(a);

## **International Standards**

NA

## **EU-MED Standards**

NA

#### **National Standards**

AST4000 - UL 508 (E214980)

## **Government Standards**

NA

#### Other Standards

ÑΑ



Certificate Number: 21-2097701-PDA-DUP

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ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.