



CERTIFICATE NUMBER 19-HG1873015-PDA  
EFFECTIVE DATE 03-July-2019  
EXPIRATION DATE 02-July-2024  
ABS TECHNICAL OFFICE Hamburg Engineering Department

## CERTIFICATE OF

# Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**TRAFAG AG**

located at

**INDUSTRIESTRASSE 11, CH-8608 BUBIKON, SWITZERLAND**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

### Product **Pressure Transmitter**

**Model 8264, 8298, 8488**

This Product Design Assessment (PDA) Certificate remains valid until expiration date 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.

American Bureau of Shipping

Efstratios Maliatsos  
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)



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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Pressure Transmitter

**Model:** 8264, 8298, 8488

**Intended Service:**

Pressure control, alarm and monitoring functions all marine applications on AMS, ACC, ACCU, ABCU classed vessels.

**Description:**

Housing made of material 1.4548/ AISI630 or 1.4301/ AISI304.

Sensor consisting of a thin film layer on steel, material 1.4548/ AISI630 for models 8264, 8298

Ceramic sensing element for model 8488

For details about pressure connections and electrical connections refer to datasheets and drawings

**Rating:**

Pressure ranges (bar): from 0...2.5 to 0...250 for model 8264, 0...2.5 to 0...2500 (customized low pressure ranges +/- 70 mbar...+/-1 bar) for model 8298 and from 0...1 to 0...40 for model 8488

Supply voltage: 9 V to 32 V, DC (nominal 24 V).

Output: 4...20 mA, DC, 0.5...4.5 VDC (for type 8298).

Ambient temperature: -40°C to 100°C for model 8264 and -40°C to 125°C for models 8298, 8488

Max. temperature of media: 100°C for model 8264 and 125°C for models 8298, 8488

Degree of protection: IP 65 (connector), IP 69K (cable).

**Service Restriction:**

- 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.

- The sensing devices are to be fitted with valves or arranged such that they may be isolated and removed without emptying tanks or without impairing the integrity of pressurized systems.

**Comments:**

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

**Notes/Drawing/Documentation:**

Drawing No. Audit 190222, ABS Manufacturing Assessment Audits, Check Sheet A, Revision: -, Pages: -

Drawing No. B62120q, DWGs- PCB EPx TR5 CURR D22.6, Revision: q, Pages: -

Drawing No. B62420j, DWGs- PCB 8298 SW27 ratio, Revision: j, Pages: -

Drawing No. H72312p, Engine Pressure Transmitter- EPN/EPNCR 8298, Revision: p, Pages: -

Drawing No. H72313n, Picotrans- NPN 8264, Revision: n, Pages: -

Drawing No. M91866\_1, DWGs- Pressure Transmitter 8488, Revision: 1, Pages: -

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 19-HG1873015-PDA, dated 03/Jul/2019 remains valid until 02/Jul/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the

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manufacturer and intended client.

## **STANDARDS**

### **ABS Rules:**

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/9.11.2, 4-6-2/9.11.3, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17, 4-9-9/13.1

### **National:**

NA

### **International:**

NA

### **Government:**

NA

### **EUMED:**

NA

### **OTHERS:**

NA