

# TYPE APPROVAL CERTIFICATE

Certificate no.: **TAA000014B**Revision No:

This is to certify:

that the Pressure Transmitter

with type designation(s) **8859** ...

issued to

Trafag AG
Bubikon, ZH, Switzerland

is found to comply with

DNV rules for classification - Ships, offshore units, and high speed and light craft

### **Application:**

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

#### Location classes:

Temperature D Humidity B Vibration A EMC B Enclosure D

Issued at Hamburg on 2025-02-11

This Certificate is valid until 2030-02-10.

DNV local unit: Augsburg

Approval Engineer: Heinz Scheffler



for **DNV** 

Digitally signed by: Dariusz Lesniewski Location: DNV SE, Germany

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.



Job ID: **262.1-024416-3** Certificate no.: **TAA000014B** 

Revision No: 2

# **Product description**

# **Submersible Pressure Transmitter**

Pressure type: gauge or absolute (vacuum)
 Pressure range: 0...0.1 bar up to 0...25 bar

Power supply: 24V DC (9V DC min. ... 28V DC max.)
 Output signal: 4...20mA, 2-wire connection, loop-powered

• Accuracy: better than ±0.25% FS (at 25°C)

Total error range: better than ±1.0% FS

Electrical connection: fixed cable

Fixing: freely suspended cable

Material: housing, diaphragm, process connection - stainless steel or titanium

seals - Viton

cable PUR or FEP (Installation inside tank only)

Degree of protection: IP68

Intrinsic Safety: SEV 12 ATEX 0164 X

## **Application/Limitation**

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Models with cable material PUR or FEP for installation inside tank only

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified / recognized Certification Body.

# Type Approval documentation

Documents & Test Report List TAA000014B, Rev.0, dated 09-07-2025

# **Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021

# **Marking of product**

The products to be marked with:

- manufacturer name
- model name
- serial number

#### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

- The main elements of the assessment are:
- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

**END OF CERTIFICATE** 

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