

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Transmitter**with type designation(s)
NAE 8256

Issued to

Trafag AG
Bubikon, ZH, Switzerland

is found to comply with

DNV GL 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 GL.****Location classes:**

Temperature	B
Humidity	B
Vibration	B
EMC	B
Enclosure	B

Issued at **Hamburg** on **2018-06-18**for **DNV GL**This Certificate is valid until **2020-05-17**.DNV GL local station: **Augsburg**Approval Engineer: **Dariusz Lesniewski**

Joannis Papanuskas
Head of Section

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.



Job Id: **262.1-027568-1**
Certificate No: **TAA00001X4**

Product description

Engine Pressure Transmitter

Measuring range: 0...6 bar to 0...600 bar

Sensor: Relative pressure, accuracy 0.5 %

Pressure connection: male G1/4", G1/4" (Manometer), 1/4" NPT or M10x1

Electrical connection:

- Male electrical plug DIN industrial standard
- Male electrical plug M12x1 4-pole or M12x1 5-pole

Materials:

- Sensor: 1.4542 (AISI630)
- Housing / Pressure connection: 1.4301 (AISI304)
- Sealing: FPM/NBR

Output: 4...20 mA, 2-wire

Power supply: 24(9...32)VDC

Degree of protection: IP65

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Test Reports: Trafag No. V-14087, Mettler-Toledo No. 20141145.A02.01

Test Reports: EMC-Testcenter No. EMCKP2447.1B

Drawings: B54860c, C21580h, C22102t

Manual: H73303f; Data Sheet: H72305h

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE



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