

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Pressure Transmitter**with type designation(s)
ECTN 8477

Issued to

Trafag AG
Bubikon ZH, Switzerland

is found to comply with

**GL Rules for Classification and Construction VI - Additional Rules and Guidelines Part 7 -
Guidelines for the Performance of Type Approvals Chapter 2 - Test Requirements for
Electrical/Electronic Equipment and Systems****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.****Temperature D**
Humidity -
Vibration D
EMC EMC1
Enclosure IP65This Certificate is valid until **2020-09-09**.Issued at **Hamburg** on **2015-09-10**for **DNV GL**DNV GL local station: **Augsburg**Approval Engineer: **Dariusz Lesniewski**

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.

Product description

Pressure transmitter for relative pressure measurement
Pressure range: 0...1.0 bar up to 0...400 bar
Power supply: 24V(9... 30)VDC
Output signal: 4...20mA: 24(9...30)VDC, 2-wire connection, loop-powered
Accuracy: ±0.5% FS (at 25°C) typ.
Process connection: 1/4" NPT male, G1/4" male/female, G1/2" male
Electrical connection: male electrical plug EN175301-803A, Mat. PA
Materials: housing 59/89: 1.4404/1.4435 (AISI316L)
52/82: 1.4462 (AISI316LN)
53/83: Titanium Grade 5
sensor Ceramic, Al2O3 (96 %)
Degree of protection: IP65

Application/Limitation

General marine application.

Type Approval documentation

Test Report: EMC-Testcenter AG No. EMCKP2641.1A, issue date 2015-03-13
Test Report: Trafag No. V-15014, issue date 2015-03-19
Data Sheet: H72322a; Instructions: H73324k; Drawings: B55029(b), B55000(c)

Tests carried out

Applicable tests according to GL Guidelines for the Performance of Type Approvals, Chapter 2, Test Requirements for Electrical/Electronic Equipment and Systems (Edition 2012).

Marking of product

The products to be marked with model name, manufacturer name and 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 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