

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Pressure Transmitter**with type designation(s)  
**EXNT 8292**

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:**

<b>Temperature</b>	<b>B</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>B</b>
<b>EMC</b>	<b>B</b>
<b>Enclosure</b>	<b>B</b>

Issued at **Hamburg** on **2019-09-04**for **DNV GL**This Certificate is valid until **2024-09-03**.DNV GL local station: **Augsburg**Approval Engineer: **Dariusz Lesniewski**

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**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.



## Product description

Pressure range: 0...0.4 bar up to 0...2000 bar  
Power supply: 24V DC (9V DC min. ... 30V DC max)  
Output signal: 4...20mA, 2-wire connection, loop-powered  
Accuracy: better than  $\pm 0.3\%$  FS (at 25°C) typ.  
Process connection: 1/4" NPT male, G1/4" male/female, G1/2" male/female, R1/4" male, M18x1,5 male  
Electrical connection: male electrical plug EN175301-803A (DIN43650-A), cable up to 5 m length  
Materials: housing - 1.4542 / 1.4301  
          sensor - 1.4542  
Degree of protection: IP65  
Intrinsic Safety: see certificates SEV 11 ATEX 0201 X, IECEx SEV 11.0003X

## 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.

## Application/Limitation

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

## Type Approval documentation

Test Report: EMC-TestCenterZürich No. EMCKP1814A  
Test Reports: Trafag no. V-12058, no. V-14001  
Data sheet: H72329u  
Manual: H73329h  
Drawings: B63800f, C16588m, E00849a, E00891e  
Certificates: SEV 11 ATEX 0201 X and IECEx SEV 11.0003X  
Type approval assessment report issued at Bubikon CH on 2018-12-21

## 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



Job Id: **262.1-030164-1**  
Certificate No: **TAA00002AC**

- 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