

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Transmitter**with type designation(s)
VD61

Issued to

NORIS Automation GmbH
Nürnberg, Bayern, Germanyis found to comply with
DNV GL rules for classification – Ships**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Temperature	D
Humidity	B
Vibration	B
EMC	B
Enclosure	B

Issued at **Hamburg** on **2017-02-08**This Certificate is valid until **2022-02-07**.DNV GL local station: **Augsburg**Approval Engineer: **Jens Dietrich**Digitally Signed By: Rinkel, Marco
for **DNV GL**
Signing Date: 2017-02-24
Location: Hamburg - On behalf of**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 Transmitter Type: VD61-xx
xx = measuring range from -1...4 bar to 0...600 bar,
Power supply: 8...30V DC,
Output signal: 4...20mA,
Degree of protection: IP64.

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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Test report : Dr. Rasek No.: 84080DF, 84080DG; LGA 271065 FiP1/2, dated 2007-03-19; Add. Test doc. Ref: 12AR-01026 / No. PRQ00045623.
Drawing 50.710 dated 2016-01-22, issue e; data sheet DB-VD61-EN, V01.00, dated 2016-02-11.
Drawings: No. DE94-1T, DI42-2, GH148-4 III, HG-VD61-1 III, MU42-1 IV, PL443-1 III, SA472-1, SA472-1G IV, SL774-1, SL1197-1, SX52-1 IV, VS54-1 IV.

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, edition November 2016.

Marking of product

Noris Automation GmbH
Pressure Transmitter
Type VD61-xx

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