DNV·GL

Certificate No:
TAA00002BY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Transmitter

with type designation(s)
Pressure Transmitters 17.457G, 18.457G, 26.457G, 30.457G

Issued to
BD SENSORS GmbH
THIERSTEIN, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Location classes:

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	**A**
Enclosure	**B for connector version** **B/IP67 for cable version**

Issued at **Hamburg** on **2019-05-21**
This Certificate is valid until **2023-12-31**.
DNV GL local station: **Augsburg**

Approval Engineer: **Jens Dietrich**

for **DNV GL**

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.

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Job Id: **262.1-008913-3**
Certificate No: **TAA00002BY**

Product description

Pressure Transmitters: 17.457G, 18.457G, 26.457G, 30.457G

Type	17.457G	18.457G	26.457G	30.457G
Input	0…6 bar up to 0…600 bar	0…100 mbar up to 0…6 bar	0…1 bar up to 0…400 bar	0…1,6 bar up to 0…250 bar
Output	4…20 mA	4…20 mA	4…20 mA	4…20 mA
Nominal Voltage	24 VDC			
Standard Supply	8…32 VDC			

Application/Limitation

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 in each case (i.e. by an instrument list) by the manufacturer of the application system. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Tests carried out

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

Power Supply Variation test carried out for 8 and 39,2 VDC for 17.457G.
Pressure transmitters cable outlet with cable and with/without air tube (IP67) tested at 4 bar for 24 hours.
Vibration Endurance test performed at 30 Hz frequency and 20 g acceleration amplitude for 90 min. in longitudinal and transversal axis according to DIN EN 60068-2-6.
Shock test (half-sine) performed for Acceleration amplitudes: 100g (2 ms), 40g (6 ms) and 500g (1 ms) according to DIN EN 60068-2-27.

Marking of product

Manufacturer: BD SENSORS GmbH
Model name: As listed under Product description
Serial number: Unique for each delivered item

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