

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Level Transmitter**with type designation(s)
BLP1

Issued to

Barksdale GmbH
REICHELSEIM WETTERAU, Germany

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	D
Humidity	B
Vibration	B
EMC	B
Enclosure	D

Issued at **Hamburg** on **2019-05-13**This Certificate is valid until **2022-12-11**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Holger Jansen**

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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

Hydrostatic probe with ceramic-capacitive sensor element

Type: BLP1

Nominal pressure ranges:	0 ... 0.06 up to 0 ... 20bar
Power supply:	24V DC rated (10 ... 32V DC), Ex version (12 ... 28 V DC)
Output signal:	4 ... 20mA, 2-wire
Electrical connection:	Shielded cable with integrated air tube for atmospheric reference
Mechanical connection:	Standard submersible probe, screw-in or flange version
Material housing: standard:	Copper-nickel alloy (CuNi10Fe1Mn),
option:	Stainless steel 1.4404
Material seals: standard:	FKM
option:	FFKM
Cable sheath:	TPE-U
Explosion protection:	According to Ex-proof certificate IBExU 10 ATEX 1142 X

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 by the manufacturer of the application system in each case. Reference is made to DNV GL Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

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

Type Approval documentation

Tests carried out

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

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- 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 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