DNV·GL

Certificate No:
TAA00001TX

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Level Gauge

with type designation(s)
UHZ-51

Issued to
Shanghai Tianmin Automation Instruments Co.,Ltd
SHANGAHI, China

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.

Temperature	**A**
Humidity	**A**
Vibration	**A**
EMC	**N/A**
Enclosure	**N/A**

Issued at **Hamburg** on **2018-05-23**
This Certificate is valid until **2023-05-22**.
DNV GL local station: **Shanghai**

Approval Engineer: **Marco Rinkel**

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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Product description
Magnetic Floater Liquid Level Gauge

Measure accuracy: +/- 10 mm
Measure range: until 6,000 mm
(The liquid level which shall be brace "fulcrum" all 1,500 mm, if the length is bigger than 2,000 mm)

Operation pressure: 1,0 Mpa until 10.0 Mpa
Steam pressure: until 1.0 Mpa

Application/Limitation
Application/Limitation
The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNVGL, 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 especially Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation
See ANNEX

Tests carried out
Applicable tests according to class guideline DNVGL-CG-0339, November 2017.

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

Annex
Type Approval documentation

Test report:

SITIIAS No. A08-001-WT	dd 05.03.2008

Drawings:

No.:TMU215-0-01/23	dd. 2005.10
No.:TMU501.0-01/24	dd. 2007.03
No.:TMU502.0-01/06	dd. 2005.03

Type approval assessment report, Shanghai, 2018-03-06