Certificate No: LR2625438TA
Issue Date: 24/12/2025
Expiry Date: 23/12/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Taixing Thermal Meters Factory Co.,Ltd.**
Address	No.24 West Street, Guangling Town, Taixing, 225462, China
Place of Production	Taixing Thermal Meters Factory Co.,Ltd. No.24 West Street, Guangling Town, Taixing, 225462, China
Type	Level Gauges
Description	Magnetic, Flat Glass And Self-Dial Liquid Level Gauge
Trade Name	UHZ, ULB, HB
Application	As liquid level indicators on tanks above the double bottom tanks on ships classed or intended for Classification with Lloyd's Register.
Specified Standard	Lloyd's Register (LR) Rules and Regulations for the Classification of Ships, July 2025; JB/T 9244-1999, Q/321283NSA02-2012 and HG/T 21584-1995.
Ratings	**Magnetic level gauge** Type: UHZ-511Z-C Maximum working pressure(MPa) :1.0 Maximum liquid temperature (℃):120 Nominal length(mm):0-6000 Material(Body/connection tube): 1Cr18Ni9Ti (Ø57x3) / (Ø27x3)

Downloaded Copy

Room 02-05, 48F, Raffles City Shanghai Office Tower, No.268 Xi Zang Middle Road, Huangpu District, Shanghai, 200001, China

Qing Dong

Engineering - Machinery - Senior Specialist to Lloyd's Register Classification Society (China) Co., Ltd.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

Magnetic float liquidometer (With steam heating)
Type: UHZ-512Z-C
Maximum working pressure(MPa) :1.0
Maximum liquid temperature (℃):200
Nominal length(mm):0-6000
Material(Body/connection tube): 1Cr18Ni9Ti (Ø57x3) / (Ø27x3)

Flat glass level gauge (Borosilicate glass)
Type: ULB-3A-C
Maximum working pressure(MPa) :0.3
Maximum liquid temperature (℃):80
Nominal length(mm):0-2000
Material(Body/connection tube): SUS304

Flat glass level gauge (Borosilicate glass)
Type: ULB-3B-C
Maximum working pressure(MPa) :0.2
Maximum liquid temperature (℃):80
Nominal length(mm):0-4710
Material(Body/connection tube): SUS304

Self-dial liquid level gauge
Type: HB-SPCG-150S and HB-SPCG-150V
Maximum working pressure(MPa) :0.06
Maximum liquid temperature (℃):120
Nominal length(mm):300-4000
Material(Body/connection tube): SUS304

Other Conditions

For application on a Lloyd's Register (LR) classed vessel, the following conditions are to be complied with:-

1. when used in flammable oil systems, the level gauges are subject to the following conditions:

-In passenger ships, they are not to require penetration below the top of the

Downloaded Copy

Room 02-05, 48F, Raffles City Shanghai Office Tower, No.268 Xi Zang Middle Road, Huangpu District, Shanghai, 200001, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

tank and their failure or overfilling of the tanks is not to permit release of flammable oil.

-In cargo ships, their failure or overfilling of the tank is not to permit release of flammable oil into the space.

-Their glasses are to be made of heat-resistant material and efficiently protected against shocks.

2. Self-dial liquid level gauge type HB-SPCG-150V is to be installed with a self-closing devices prior it.

3. The selection of the devices for the corresponding services and correct installation are also to be in accordance with the Manufacturer's instruction.

4. Where level gauges are intended to be used in Class II piping systems, such as oil piping system with design temperature greater than 60°C, materials are to be manufactured and tested in accordance with the appropriate requirements of the Rules for Materials.

5. Materials for level gauges including isolation or sealing components used for self-closing valves sensitive to heat, are not to be used in space where leakage or failure caused by fire could result in fire spread, flooding or the loss of an essential service as per Part 5, Chapter 12, Section 6.1.3 of the Rules.

6. Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR.

Downloaded Copy

Room 02-05, 48F, Raffles City Shanghai Office Tower, No.268 Xi Zang Middle Road, Huangpu District, Shanghai, 200001, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co., Ltd. of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2118372TA

The Design Appraisal Document LR2625438TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

Room 02-05, 48F, Raffles City Shanghai Office Tower, No.268 Xi Zang Middle Road, Huangpu District, Shanghai, 200001, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.