Certificate No: LR2627750TA
Issue Date: 03/04/2025
Expiry Date: 02/04/2030

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	**HERIANA CO LTD**
Address	73, Hwajeonsandan 2-ro, Gangseo-gu, Busan, 46738, South Korea
Type	Temperature Sensor
Description	Platinum Resistance Temperature Sensor and Thermocouple Temperature Sensor
Trade Name	HR101 and HC301 (Platinum resistance), HT201 (Thermocouple)
Application	Marine and offshore applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in LR Type Approval System Test Specification No. 1-2019 where the Test Specification is satisfactory for the intended operation.
Specified Standard	Manufacturer's specification.
Ratings	Platinum Resistance Temperature Sensor (HR101, HC301) • Element wire - platinum • Nominal resistance value - Pt 100 Ω at 0°C • Regulated current – 2 mA • Operating temperature - 0 ~ 200 °C, class B • Resistance value of standard element – IEC60751 • Allowance against temperature – (± 0.3 + 0.005t) °C Thermocouple Temperature Sensor (HT201) • Element wire - Alumel/Calomel (K-Type)

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- Nominal value - 0 µV at 0°C
- Thermocouple of standard element - JIS C 1602-1995
- Tolerance temperature - ± 0.0075t °C

Other Conditions 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 If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR21101463TA

The Design Appraisal Document LR2627750TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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