Certificate No: LR26345769MR
Issue Date: 22/07/2026
Expiry Date: 21/07/2031

European Union Recognised Organisation (EU RO) Mutual Recognition Type Approval Certificate in accordance with Article 10.1 of EU Regulation 391/2009.

This is to certify to the Manufacturer named below, that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements. The most demanding and rigorous standard from all EU ROs has been taken as a reference for the development of the Technical Requirement on which present certificate is based.

This certificate is issued to:

Manufacturer	**WIKA Instrumentation (Suzhou) Co., Ltd.**
Address	81, Ta Yuan Road, SND, Suzhou City, 215100, China
Product Type	Temperature Gauges & Transmitters
Description	Thermometer
Trade Name	TR10-H/TC10-H, TR10-B/TC10-B, TR10-0/TC10-0, TR40/TC40, TR50/TC50, TR95/TC95, TIF50/DIH50
Application	Applicable for a ship as defined in Mutual Recognition provisions Article 10 Regulation on Common Rules and Standards for Ship Inspection and Survey Organizations.
Specified Standard	EU RO Mutual Recognition Technical Requirements, Tier 4 – TEMPERATURE GAUGES AND TRANSMITTERS (Version 0.5/ 01 July 2026)
Ratings	Model: TR10-H/TC10-H: RTD assembly without thermowell

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Ning Guan

Electrical & Control Technical Manager - Southeast Asia & Great China to Lloyd's Register Classification Society (China) Co.,

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TR10-B/TC10-B: RTD assembly with neck tube
TR10-0/TC10-0: Industrial assembly configured
TR95/TC95: RTD assembly without thermowell
Voltage supply: 24V DC
Output signal: 4…20mA

Model:
TR40/TC40: Cable thermocouple
TR50/TC50: Surface thermocouple
TIF50: Digital indicator with HART transmitter
DIH50: Digital indicator without HART transmitter

Accuracy range:
TR models: -196 ~ 570℃
TC models: 400 ~ 800℃

IP Level: IP66

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.

The Design Appraisal Document No. LR26345769MR and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- *American Bureau of Shipping (ABS);*
- *Bureau Veritas (BV);*
- *China Classification Society (CCS);*
- *Croatian Register of Shipping (CRS);*
- *DNV GL;*
- *Indian Register of Shipping (IRS);*
- *Korean Register (KR);*
- *Lloyd's Register Group Ltd. (LR);*
- *Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);*
- *Polish Register of Shipping (PRS);*
- *RINA Services S.p.A. (RINA).*

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).

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