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Certificate No: LR25271189TA Issue Date: 24/09/2025 Expiry Date: 13/06/2030 Reference: TSO/25-035562-

02/SP/JB

## LLOYD'S REGISTER TYPE APPROVAL - DESIGN APPRAISAL DOCUMENT

Issued by: GLOBAL TECHNICAL SUPPORT OFFICE

Issued to: Plöger Sensor GmbH For: Thermocouples

Type: 14, 21, 29, 38, 130, 140, 147, 165, 166, 167, 179, 211

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval Schemes Procedure (01/01/2025) and this Design Appraisal Document forms part of the Certificate.

## **APPROVAL DOCUMENTATION**

unnumbered	Type Approval Application Checklist	02.03.2025
182374	Request for Marine Services – Type Approval	28.04.2025
HTS/ETS 40306-20/	Design Appraisal Document of previous certificate no. LR2010811TA	18.08.2020
MK/JB	and all the documentation listed in the same	
LR2010811TA	Previous Type Approval Certificate for MBT 5560 Transmitters/Transducers	18.08.2020
PRJ11100482658-2	Production quality assessment form	23.09.2025
H 107 – 38	Technical sheet: Resistance thermometer Type 38 for stern tube bearing	11.2024
H 110 – 1e	Technical sheet: Resistance thermometer Type 179 for stern tube bearing	11.2024
H 110 – 2e	Technical sheet: Resistance thermometer Type 147 for stern tube bearing	11.2024
H 110 – 3e	Technical sheet: Resistance thermometer Type 130 for stern tube bearing	11.2024
H 200 – 1e	Technical sheet: Resistance thermometer Type 211 with temperature range up to 200 °C	11.2024
H 300 – 1e	Technical sheet: Resistance thermometer Type 166 for adjustable clamping fitting	11.2024
H 400 – 1e	Technical sheet: Screw - in resistance thermometer Type 167 developed for	11.2024
	middle mechanical load, with replaceable measuring insert	
H 420 – 1e	Technical sheet: Screw - in resistance thermometer Type 165 developed for	11.2024
	middle mechanical load, with replaceable measuring insert	
H 800 – 1e	Technical sheet: Resistance thermometer Type 140 and Type 14	11.2024
	with temperature range up to 80 °C	
S 200 – 2e	Technical sheet: Resistance thermometer Type 21 developed for	11.2024
	medium mechanical stress	
S 210 – 2e	Technical sheet: Resistance thermometer Type 29 developed for low mechanical stress	11.2024

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24 September 2025

Maritime Operations Global Technical Support Office Electrical & Control System Discipline

Lloyd's Register Marine and Offshore India LLP

LR032.2022

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Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

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