

LLOYD'S REGISTER TYPE APPROVAL
Issue by: HAMBURG TECHNICAL SUPPORT OFFICE (HPC1562092)
Issued to: PLÖGER SENSOR GMBH
For: THERMOCOUPLES, TYPES 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 System Procedure TA14 Version 03 (July 2017) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

ETS 55512	Type Approval Application Checklist	16.06.2020
ETS 55672	Request for Marine Services – Type Approval	13.07.2020
ETS 31817-15	Design Appraisal Document of previous certificate no. 95-20019 (E5)	08.06.2015
PRJ11100273367-1	Production quality assessment report of Plöger Sensor GmbH	17.08.2020
H 107 – 38	Technical sheet: Resistance thermometer Type 38 for stern tube bearing	10.2015
H 110 – 1e	Technical sheet: Resistance thermometer Type 179 for stern tube bearing	06.2020
H 110 – 2e	Technical sheet: Resistance thermometer Type 147 for stern tube bearing	10.2015
H 110 – 3e	Technical sheet: Resistance thermometer Type 130 for stern tube bearing	06.2020
H 200 – 1e	Technical sheet: Resistance thermometer Type 211 with temperature range up to 200 °C	11.2015
H 300 – 1e	Technical sheet: Resistance thermometer Type 166 for adjustable clamping fitting	06.2020
H 400 – 1e	Technical sheet: Screw - in resistance thermometer Type 167 developed for middle mechanical load, with replaceable measuring insert	06.2020
H 420 – 1e	Technical sheet: Screw - in resistance thermometer Type 165 developed for middle mechanical load, with replaceable measuring insert	06.2020
H 800 – 1e	Technical sheet: Resistance thermometer Type 140 and Type 14 with temperature range up to 80 °C	06.2020
S 200 – 2e	Technical sheet: Resistance thermometer Type 21 developed for medium mechanical stress	06.2020
S 210 – 2e	Technical sheet: Resistance thermometer Type 29 developed for low mechanical stress	06.2020

DRAWINGS

H 107-038	Widerstandsthermometer für Stevenrohrlager / TG38	21.09.2012
H 110-130	Temperaturfühler mit einstellbarer Bajonettverschraubung / TG 130	05.2020
H 110-147	Widerstandsthermometer für Stevenrohrlager in Teflon – Ausführung / TG147	06.2020
H 110-179	Widerstandsthermometer für Stevenrohrlager / TG179	06.2020
H 110-179	Widerstandsthermometer für Stevenrohrlager / TG179 mit Klemmstein	06.2020
H 110-179e	Resistance thermometers for stern tube bearings / TG 179	06.2020
H 200-211	Temperaturmeßumformer mit Steckverbinder nach DIN 43650 / TW 211	05.1998
H 301-166	Einsteckfühler, robuste Bauform für einstellbare Klemmverschraubung / TK 166	06.2020
H 400-167	Einschraubfühler, robuste Ausführung / TK 167	06.2020

DRAWINGS (continued)

H 601-7	Meßeinsatz / TF 7	06.2020
H 420-165	Einschraubfühler mit Halsrohr robuste Ausführung / TK 165	06.2020
H 450-211e	Temperature transmitter with connector according to DIN 43650 / TW 211	06.2017
H 450-211s	Temperaturmeßumformer mit Steckverbinder nach DIN 43650 / TW 211 s	10.11.1998
H 450-211se	Temperature transmitter with connector according to DIN 43650 / TW 211 s	14.08.2013
H 450-211s-E	Temperatursensor mit Eurostecker M12x1 / TW 211s-E	04.04.2018
H 820-140	Temperaturmeßumformer für Wandmontage / TKb140	06.2020
S 200-21-1	Schutzhülse für mittlere mechanische Belastung / TS21	06.2020
S 201-21-3	Messeinsatz für Schutzhülse TS 21 / TK21	06.2020
S 210-29-1	Schutzhülse, leichte Ausführung / TS29	06.2020
S 210-29-3	Messeinsatz für Schutzhülse TS 29 / TKm29	06.2020
X 500-130	Temperaturfühler mit einstellbarer Bajonettverschraubung / TG 130	06.2020



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Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

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.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.