

LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT
ISSUED BY: HAMBURG TECHNICAL SUPPORT OFFICE
ISSUED TO: KONGSBERG MARITIME AS
FOR: GL-300 TANK GAUGING SYSTEM
TYPE APPROVAL CERTIFICATE NO. LR2002080TA

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

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|----------------------|--|------------|
| ETS 53898 | Application Checklist – Appendix to Form TA2502TA | 24.09.2019 |
| ETS 54429 | Request for Marine Services – Type Approval | 03.01.2020 |
| ETS 30051-14 | Design Appraisal Document of previous certificate no. 14-20047 | 18.08.2014 |
| OSL 1900153 | Production quality assessment report of Kongsberg Maritime / Ranheim | 06.06.2019 |
| 900662 | Certification ISO 9001:2015 (Kongsberg Maritime AS) | 17.09.2019 |
| 342829/J | EU Declaration of Conformity | 04.07.2019 |
| 386310/J | Software Revision History | 25.10.2018 |
| 424746 Rev G | Software Revision History for pressure transmitter | 12.12.2019 |
| 364982/B | Product data sheet Radar Electronic Unit GLH-310 | 14.02.2018 |
| 436580/A | Product data sheet Radar Electronic Unit GLH-320 | 04.01.2019 |
| P-GC300/CE Rev J | Product data sheet Cargo Temperature Unit GC-300 | undated |
| P-GLA300/CE Rev E | Product data sheet Radar Tank Gauge for oil, Product and Ch. Tankers | undated |
| P-GT406/CE Rev C | Product data sheet Pressure Transmitter | undated |
| P-GT406-GLA/CE Rev A | Product data sheet Pressure Transmitter | undated |
| P-GLK300/CE Rev H | Product data sheet Signal Processing Unit GLK-300 | 04.01.2019 |
| IECEEx PRE 14.0053X | IECEc Certificate of Conformity Issue 0 for GLK-300 | 27.11.2014 |
| IECEEx SIR 14.0024X | IECEc Certificate of Conformity Issue 1 for GC-300 | 03.08.2017 |
| IECEEx NEM 12.0008X | IECEc Certificate of Conformity Issue 2 for GT-406 | 21.03.2017 |
| IECEEx SIR 14.0025X | IECEc Certificate of Conformity Issue 1 for GLA-300 | 05.07.2019 |

TEST REPORTS

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|-----------|---|------------|
| E17118.00 | Test Report (EMC, Environmental) for GLA-300, GLH-320, GT-406 | 22.09.2017 |
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LR031.1.2016.06

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Supplementary Type Approval Terms and Conditions

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.