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Certificate No: LR25341606TA
Issue Date: 05/11/2025
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Reference: TSO/25-031432/CW/TW

LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

Issued by: GLOBAL TECHNICAL SUPPORT OFFICE

Issued to: Kongsberg Maritime AS

For: High Speed I/O Module

Type: HSIO-100-A, HSIO-100-B, HSIO-100-C

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval Schemes Procedure TA V6 April 2025 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

105333	Request for Marine Services – Type Approval	19.03.2025
unnumbered	Type Approval Application Checklist	19.02.2025
HTS/ETS 39687-20/ TW/HN	Design Appraisal Document of previous certificate no. LR2002494TA and all the documentation listed in the same	24.03.2020
LR2002494TA	Previous Type Approval Certificate for High Speed I/O Module	24.03.2020
C561587	Certificate ISO 9001:2015	31.05.2023
unnumbered	Production quality assessment form	21.06.2023
424979 Ver. E	Software revision history for Kongsberg Maritime HSIO units.	02.02.2024
unnumbered	Software release note 131- HSIO-100-A	-
unnumbered	Software release note 131- HSIO-100-B	-
unnumbered	Software release note 150- HSIO-100-C	-
P-HSIO-100-A/CE Rev. B	Datasheet HSIO-100-A	-
P-HSIO-100-B/CE Rev. D	Datasheet HSIO-100-B	-
P-HSIO-100-C/CE Rev. B	Datasheet HSIO-100-C	-
E-2771/1 Rev. C	Serial number sticker for HSIO-100-xx-xx	20.07.2021
P_CMS_DE Rev. B	Kongsberg Condition Monitoring System Installation Manual Release 1.0	May.2019
P-HSIO100/FE Rev. C	HSIO-100 Condition monitoring system User Manual Kongsberg Maritime part number HSIO-100 Release 1.1	Feb.2019
unnumbered	Declaration concerning Nemko test report E17008.02	30.10.2025
unnumbered	Declaration concerning IACS E10 Rev.9	11.03.2025

TEST REPORTS

E17008.02	Test Report: IACS E10 upgrade. Added Radiated RF Disturbance Immunity 1-6GHz	22.04.2022
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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.