



## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Auto-Maskin AS</b>
<b>Address</b>	Hvamsvingen 22, Skjetten, 2013, Norway
<b>Place of Production</b>	Auto-Maskin AS Hvamsvingen 22, Skjetten, 2013, Norway
<b>Type</b>	Control Units
<b>Description</b>	Diesel Engine Control Unit, 300-series DCU 305 R2 DCU 305 R3 DCU 305 R3 LT RSP 305 (Remote Panel) RK-66 (Termination Board required for DCU 305)
<b>Trade Name</b>	DCU 305
<b>Application</b>	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021.
<b>Specified Standard</b>	Manufacturer's specification IACS UR E10 Rev. 8 / 2021
<b>Ratings</b>	Operating Voltage: 24 VDC

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Firmware versions:

DCU 305 R2: FW 4.47

DCU 305 R3: FW 6.59

RSP 305: FW 5.09

**Other Conditions**

For systems consisting of the listed components the final functional arrangement and application software are to comply with appropriate Lloyd's Register Rules and Regulations and shall be subject to project related Plan Approval Process, when installed on LR classed vessels. Documents and drawings for the actual application are to be provided according relevant LR Rules and Regulations.

Software life-cycle activities are satisfying relevant requirements of Assessment Module GEN1 of LR's Software Conformity Assessment process. Changes within the software shall be recorded, and the files shall be presented on request. Major software changes shall be approved by the Class Society prior to implementation in the product(s).

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 18/20031

The Design Appraisal Document HPC1662178-23/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.