Certificate No: LR25248462TA
Issue Date: 19/11/2025
Expiry Date: 18/11/2030

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.

Manufacturer **AVAT Automation GmbH**

Address Derendinger Straße 40, Tübingen, 72072, Germany

Type Control Systems

Description AVAT Marine Control Platform (AMCP)
Modular control system for multiple applications

Type of component	Sub-component	AVAT article No.
CPU	CPU-4M CU	3004040
CPU	CPU-4M CU E01	3004041
Communication Controller	IOC-4M CC	4007100
Communication Controller	IOC-4M CC-E	4007101
IO module	IOC-4M 7T	4007200
IO module	IOC-4M 5AI	4007202
IO module	IOC-4M 4AIO-SI	4007204
IO module	IOC-4M 6AIO	4007205
IO module	IOC-4M 18DI1	4007400
IO module	IOC-4M 8DI2	4007402
IO module	IOC-4M 18DO1	4007403
IO module	IOC-4M 8DOd	4007404
IO module	IOC-4M 7DOs	4007406
IO module	IOC-4M 8DIcb	4007407
IO module	IOC-4M 6DIO	4007408
Rack	IOC-4M Rack-05	4007000

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Thorsten Wolff

Electrical & Control - Senior Specialist to
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	Rack	IOC-4M Rack-08	4007001
	Rack	IOC-4M Rack-13	4007002
	Rack	IOC-4M Rack-20	4007003

Trade Name CPU-4M / IOC-4M

Application Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 (suitable for installation in the general power distribution zone) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2024.

Specified Standard Manufacturer's specification
IACS unified requirements E10 (Rev.9 Aug 2023)

Other Conditions The 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.

Approval of the functionality of the engine controller is subject to a separate Software Conformity Assessment.

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.

The Design Appraisal Document TSO-24-023512/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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