Certificate no.:
TAA00003H4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Engine Safety, Control and Alarm System

with type designation(s)
Marine Pro 200 Series, Marine Watch LT Series

issued to
Auto-Maskin AS
Skjetten, **Norway**

is found to comply with
DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security

Application:

This type approval covers security capabilities in accordance with DNV security profile 1 and IACS UR E27 Rev.1 (Sep 2023), subject to conditions stated in this certificate.

Issued at **Høvik** on **2025-01-27**

This Certificate is valid until **2027-01-26**.

for **DNV**

DNV local unit: **East & South Norway CMC**

Approval Engineer: **Simen Vike Lande**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

The Marin Pro 200 series is an engine safety, control and alarm system that may be comprised of any combination of the below listed components:

Part number	*OEM part number*	*Description*	*Firmware number*
1006477	-	DCU 208E	3.11 P6
1006473	-	DCU 210E	3.11 P6
1006475	-	DCU 210E	3.11 P6
1006439	5485361	DCU 210E (OEM1)	3.11 P6
1100385	492-6331	DCU 210E (OEM2)	3.11 P6
1006503	148661-95020	DCU 210E (OEM3)	3.11 P6
1500103	2999365	DCU 210E (OEM5)	3.11 P6
1006476	-	RP 210E	3.11 P6
1006474	-	RP 210E	3.11 P6
1006504	-	RP 210E (OEM3)	3.11 P6
1500105	2999366	RP 210E (OEM5)	3.11 P6
1006478	-	RP 206E	3.11 P6
1006472	-	RP 220E	3.11 P6
1100800	492-6332	RP 220E (OEM2)	3.11 P6
1006462	-	RIO 210	1.0
1500085	-	Switch	-
The certificate is valid for systems running the listed firmware version and/or higher. Limited to minor updates indicated by updating either (y,z) in X.Y Pz.			

The Marine Watch LT series is an engine alarm system that may be comprised of any combination of the below listed components:

Part number	*OEM part number*	*Description*	*Firmware number*
1500074	-	LT-ONE	3.11 P6
1500120	-	LT-ACE	3.11 P6
1500085	-	Switch	-
The certificate is valid for systems running the listed firmware version and/or higher. Limited to minor updates indicated by updating either (y,z) in X.Y Pz.			

Minor changes in firmware and consequent changes of firmware version numbers are covered by this Type Approval when such changes are performed in accordance with Firmware Version Labelling Strategy Doc. No. 3/1201-AMS007, i.e. not changing core functionality as it is described in type approval documentation.

Approval conditions

The following documentation of the actual application is to be submitted for approval in each case where the class notation Cyber secure(Essential) applies:

- Reference to this Type Approval Certificate
- F030 - System topology
- F071 - Inventory list
- F262 - Test report or declaration of hardening and security configuration.

Any modifications in the system to be delivered compared with the type approved system covered by this certificate shall be documented and submitted for approval in each case.

Major changes of the type approved system affecting future deliveries shall be informed to DNV. If the changes are

considered to affect functionality for which rule requirements apply, a new functional type test may be required, and the certificate may have to be renewed to identify the new version. Minor changes are covered by this type approval.

Product certificate
Each delivery of the application system is to be certified according to Pt.6 Ch.5 Sec.21. After certification the clause for software control will be put into force.

Software control
All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

Application/Limitation

The following conditions shall be satisfied when the system is installed and used on a vessel where the class notation Cyber secure(Essential) applies:

- The system shall not be connected to untrusted networks.
- The system with its component shall be installed in a restricted area with means to prevent unauthorized access.
- For connection to other security zones, the connection shall be by a separately approved zone boundary device.

Tests carried out

Applicable tests according to DNV-RU-SHIP Pt.6 Ch.5 Sec.21 edition July 2024, security profile 1.
Relevant manuals and instructions of Auto-Maskin's management system have been verified for compliance with IACS UR E27 chapter 5.

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:
- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate
- Review documented evidence of adherence to Secure Development Lifecycle processes.

A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE