Certificate no.:
TAA00003R0

TYPE APPROVAL DESIGN CERTIFICATE

This is to certify:

that the Auto pilots

with type designation(s)
AutoPilot SEM300 / FAP-3000

issued to
EMRI A/S
Skovlunde, **Denmark**

is found to comply with
DNV rules for classification – Ships Pt.6 Ch.5 Sec.21 Cyber security [2.2] Exclusion based on negligible risk

Application:

This type approval covers the criteria for exclusion from the mandatory application of Pt.6 Ch.5 Sec.21 Cyber security, subject to conditions stated in this certificate.

Issued at **Høvik** on **2025-08-25**

This Certificate is valid until **2027-08-24**.

for **DNV**

DNV local unit: **AC Europe Digital Ship Systems**

Approval Engineer: **Vinay Bhardwaj**

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 300,000 USD.

Product description

EMRI Autopilot SEM300 / FAP-3000 consisting of the following units:

Component Description	Brand/Manufacturer	Product model/Type	OS/Application SW version	Connection/Interface type
AEU (Autopilot Electronic Unit)	EMRI	AEU611	**v0.02.xx (x>40)**	Ethernet LAN (Disabled by default) JTAG programming port NMEA IEC 61162-1/2 CANBUS **Disabled ports:** • USB host port. • USB device port. • SD-card port
MIP panel (Main Control Panel)	EMRI	MIP211 for SEM300 MIP241 for FAP-3000	**v0.02.xx (x>50)**	Serial port RS232, pin header. JTAG programming port CANBUS **Disabled ports:** • USB device port. • Ethernet LAN port. • SD-card port.
ARP (Armrest Control Panel)	EMRI	ARP11 for SEM300 ARP21 for FAP-3000	**v1.00.xx (x>20)**	JTAG programming port CANBUS **Disabled ports:** • Ethernet LAN port
ACO (Automatic Change Over Unit):	EMRI	ACO1x	N/A	N/A

Approval conditions:

Components/Applications in the product description have been assessed towards the exemption criteria for DNV rules for ships Pt.6 Ch.5 Sec 21 [2.2] for Cyber Security (SP1) and IACS UR E26 [6.4], thus subjected system may be considered to represent negligible cyber risk and thus exempted from the list of Systems under Consideration (SuC), based on the above table for Design limitations.

Henceforth termed as **TADC exemption.**

When the TADC exempted system is delivered to a vessel with class notation Cyber secure(Essential), the following additional verification applies as per DNV-RU-SHIP Pt.6 Ch.5 Sec.21:

1. It shall be demonstrated that the architecture of each delivery is documented in a project-specific system topology F030 and that this is consistent with approved document "**APP11343-2"**.
2. It shall be demonstrated that each delivery is correctly represented by a vessel-specific asset inventory (F071) and that this inventory is consistent with approved document **"APP11343-2"**.
3. It shall be demonstrated by a declaration that each delivery has been configured and hardened as per the approved document **"APP11343-2.** Certification testing of cyber security capabilities is not required if the delivery is fully covered by this TADC exemption certificate.

If the delivered system differs from the TADC exempted system, this shall be described and submitted for assessment.

Application/Limitation

The Autopilot should be fully isolated from the onboard networks. It must not have IP-network connections to other ship systems or networks.

System has capability of Ethernet, SD-Card & USB ports which are logically disabled.

Deviation from these settings may void this TADC exemption.

The system is to be installed according to manufacturer's instructions.

Type Approval documentation

Drwg./Doc. No.	EMRI ref number	Rev.	Title
F011	APP11343-2	Ver 2.0	Cybersecurity Risk Assessment for AutoPilot SEM300 / FAP-3000

Marking of product

- Hardware devices are marked with product name and type as listed in 'Product description' above.
- Software version(s) can be seen via each product's management interface.

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

END OF CERTIFICATE