



NIPPON KAIJI KYOKAI

Form 900

COPY

TYPE APPROVAL CERTIFICATE FOR SYSTEMS AND EQUIPMENT WITH CYBER RESILIENCE

Certificate No. TA26564M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 10, Part 7 of "Guidance for the Approval of Materials and Equipment for Marine Use", IACS UR E27 and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	Praxis Automation Technology B.V.
Place of Manufacturer:	Zijldijk 24a, 2352AB Leiderdorp, The Netherlands
Product description:	Alarm, monitoring and control system
Model:	MEGA-GUARD E-Series & MEGA-GUARD AI-Series
Intended for:	Refer to attached sheet
Approval No.:	26CY062
Valid until:	30 July 2031

The details are described in the attached sheet(s).

Issued at Tokyo on 31 July 2026.


T. Okamoto
General Manager
Machinery Department



Note: The applicant, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Systems and Equipment with Cyber Resilience:

1. Rules and standards:

- The product is satisfied with requirement of Chapter 4, Part X of the Rules for the Survey and Construction of Steel Ships, as amended by IACS UR E27 Rev.1.

2. Limitation:

- The FMS is to be installed for the product to be capable of communicating with untrusted networks, in accordance with the requirement of 4.4.3, Part X of the Rules for the Survey and Construction of Steel Ships, as amended by IACS UR E27 Rev.1.
- Major changes of the type approved system affecting future deliveries are to be informed to the Society. 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 of the type approved system not affecting functionality for which rule requirements apply are to be documented and submitted.
- For each vessel, Computer-based system asset inventory, Topology diagrams and Test reports are to be submitted for approval or reference in accordance with Table X2.3, Part X of the Rules for the Survey and Construction of Steel Ships.

3. Intended for

The type approval is intended for the following functions:

- Alarm Monitoring System (AMS)
- Bridge Navigational Watch Alarm System (BNWAS)
- Extended Alarm System (EAS)
- Window Wiper Control System (WWCS)
- Anti-Heeling System (AHS)
- Power Management System (PMS)
- Propulsion Control System (PCS)
- Navigation Light Control System (NLCS)
- Fire Alarm System (FAS)
- Fleet Management System (FMS)
- Dynamic Positioning System (DPS)

- To be continued -

4. Components:**- AMS**

Description	Model No.	Software version
Workstation	98.6.001.8xx.xx	WIN10-X64-21H2-002
	98.6.022.8xx.xx	WIN10-X64-21H2-002
	98.6.001.9xx.xx	WIN11-X64-24H2-001
	98.6.022.9xx.xx	WIN11-X64-24H2-001
Control Processor	98.6.049.8xx	-
Control Processor Module AI-series	98.6.049.9xx	Yocto 5.0 LTS
I / O Module	98.6.030.8xx	-
	98.6.032.8xx	
	98.6.034.8xx	
8" TFT operator panel	93.1.980.x	Yocto 5.0 LTS
Ethernet Isolator Module	98.6.040.9xx	-
Ethernet Switch	98.6.040.802	v1.0.1.1
	98.6.040.803	
Trackball & Keyboard / USB Input Devices	93.6.021.xxx	-
	98.6.021.650	
	98.6.022.63x	
Serial NMEA to USB – 8 channels	98.6.040.8xx.x	-

- BNWAS, WWCS, AHS, PMS, NLCS, FAS

Description	Model No.	Software version
Operator Panel	TFT 5.7 : 93.0.98x	-
	TFT 8.4 : 98.6.02x.64x	
	TFT 2.4 : 98.6.02x.627x.x	
I / O Module	98.6.030.8xx	-
	98.6.032.8xx	
	98.6.034.8xx	

- EAS

Description	Model No.	Software version
Operator Panel	TFT 5.7 : 93.0.98x	-
	TFT 8.4 : 98.6.02x.64x	
	TFT 2.4 : 98.6.02x.627x.x	

- To be continued -

- PCS

Description	Model No.	Software version
Operator Panel	TFT 5.7 : 93.0.98x TFT 8.4 : 98.6.02x.64x TFT 2.4 : 98.6.02x.627x.x	-
Control Lever	98.6.022.62xx	-
I / O Module	98.6.030.8xx 98.6.032.8xx 98.6.034.8xx	-
Control Processor	98.6.049.8xx	-

- FMS

Description	Model No.	Software version
Workstation	98.6.001.8xx.xx	WIN10-X64-21H2-002
	98.6.022.8xx.xx	WIN10-X64-21H2-002
	98.6.001.9xx.xx	WIN11-X64-24H2-001
	98.6.022.9xx.xx	WIN11-X64-24H2-001

- DPS

Description	Model No.	Software version
Workstation	98.6.001.8xx.xx	WIN10-X64-21H2-002
	98.6.022.8xx.xx	WIN10-X64-21H2-002
	98.6.001.9xx.xx	WIN11-X64-24H2-001
	98.6.022.9xx.xx	WIN11-X64-24H2-001
USB Input Device	93.6.021.xxx	-
	98.6.021.650	
	98.6.022.63x	
Serial NMEA to USB – 8 channels	98.6.040.8xx	-
Ethernet Switch	98.6.040.802	v1.0.1.1
	98.6.040.803	
Control Processor	98.6.049.8xx	v2.30.1.0
		v2.31.3.0

- Application Software

MEGA-GUARD Release 6.0.2.5 or higher

- To be continued -

5. Documentation and Test Reports:

- CBS Asset Inventory R07
- Topology Diagram R04 (dated 13 Mar. 2026)
- Description of Security Capabilities R04 (dated 19 Mar. 2026)
- Test Procedure for Security Capabilities rev.7 (dated 17 Jun. 2026)
- Test Procedure for Security Capabilities rev.7.1 (dated 8 Jul. 2026)
- Security configuration guidelines R05 (dated 18 Mar. 2026)
- Development Guidelines R2025-1 (dated 12 Sep. 2025)
- Plans for maintenance and verification R01 (dated 19 Mar. 2025)
- Recovery Plan R1.2(dated 26 Apr. 2024)
- Test Reports

- The End -