



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA24343M

**This is to certify** that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

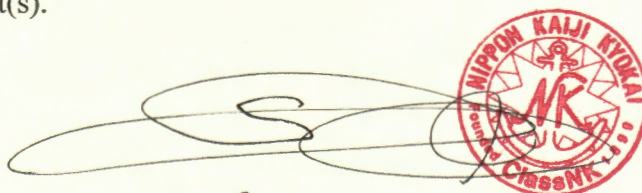
This certificate is issued to

Manufacturer: **Mariner Systems (UK) Ltd.**  
Place of Manufacturing: **Oaklands Park, Wokingham, Berkshire, RG41, 2FD, UK**  
Product description: **HP E22 / E24 / E27 G5 FHD Monitors with Mariner Kit**  
Model: **Mariner Kit MS1710, MS1715 and MS1720 for HP E22 G5  
FHD 21.5-inch Monitor  
Mariner Kit MS1730, MS1735 and MS1740 for HP E24 G5  
FHD 23.8-inch Monitor  
Mariner Kit MS1750, MS1755 and MS1760 for HP E27 G5  
FHD 27-inch Monitor**

Approval No.: **24A015**  
Valid until: **26 June 2029**

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

Issued at Tokyo on 27 June 2024.



*S. Oishi*  
S. Oishi  
General Manager  
Machinery Department

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



# NIPPON KAIJI KYOKAI

Attached sheet -1/3 to the Certificate No. TA24343M

## Specification & documents:

1. Particulars: Power supply: AC 100V ~ 240V, 50 / 60Hz

2. Components and reference drawings:

Component	Drawing
Mariner Kit MS1710, MS1715 and MS1720 for HP E22 G5 FHD 21.5-inch Monitor	HP E22 G5 FHD Monitor QuickSpecs v.2, MS1710_A, MS1715_A, MS1720_A
Mariner Kit MS1730, MS1735 and MS1740 for HP E24 G5 FHD 23.8-inch Monitor	HP E24 G5 FHD Monitor QuickSpecs v.3, MS1730_A, MS1735_A, MS1740_A
Mariner Kit MS1750, MS1755 and MS1760 for HP E27 G5 FHD 27-inch Monitor	HP E27 G5 FHD Monitor QuickSpecs v.3, MS1750_A, MS1755_A, MS1760_A

3. Documentation and Test Reports:

- Marine Type Approval Test Requirements (Issue 17, dated June 2023)
- Test Report TL23061 (Issue 1, dated 31 July 2023)
- Test Report TL23062 (Issue 1, dated 31 July 2023)
- Test Report TL23063 (Issue 1, dated 31 July 2023)
- Flame Retardant Test Report R21-5423 for Mariner Kit ( 3<sup>rd</sup> March 2021)
- Flame Retardancy Component Matrix HP E22 E24 E27 G5 FHD Monitors

- To be continued -



**Test items & approval conditions:**

## 1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test <b>Note (1)</b>		X
Inclination test		X
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		X

- To be continued -



**NIPPON KAIJI KYOKAI**

Attached sheet -3/3 to the Certificate No. TA24343M

Note (1)

- Acceleration  $\pm 1.0$  g  
Mariner Kit MS1710, MS1715 and MS1720 for HP E22 G5 FHD 21.5-inch Monitor
- Acceleration  $\pm 0.7$  g  
Mariner Kit MS1730, MS1735 and MS1740 for HP E24 G5 FHD 23.8-inch Monitor  
Mariner Kit MS1750, MS1755 and MS1760 for HP E27 G5 FHD 27-inch Monitor

2. Approval condition:

The product is not allowed to be installed on open decks.

**- The End -**