



# Type Approval Certificate

[ Marine Monitors ]

**Initial Approval** 17 January 2024

**Manufacturer** Mariner Systems (UK) Ltd.  
Oaklands Park, Wokingham, Berkshire, RG41 2FD, United Kingdom

**Product Description** Monitor for Marine Computer  
- Model : HP E22 G5 FHD, HP E24 G5 FHD, HP E27 G5 FHD



**Approval Condition** " See Appendix 1 "

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 16 January 2029  
Issued at Busan, Korea on 17 January 2024



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME24002925802) and certificate No.(LDN04977-AC122).



**KOREAN REGISTER**

*General Manager of  
Marine & Ocean Equipment Team*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
  2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
  3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
  4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

## Product Description and/or Approval Condition

Date of Issue : 17 January 2024

### A. Product Description

#### 1. Product Specification

##### 1) Specification

	HP E22 G5 FHD	HP E24 G5 FHD	HP E27 G5 FHD
Model	6N4E8AA	6N6E9AA	6N4E2AA
Display Size	21.5 inch(54.6cm)	23.8 inch(60.5cm)	27 inch(68.6cm)
Power Source	100-240VAC 50/60Hz		
Power Consumption	Max. 50W	Max. 53W	Max. 50W
Operating Temperature	5°C ~ 35°C		
Monitor Mariner Kit <sup>1</sup>	MS1710 (Desk Mount) MS1715 (Wall Mount) MS1720 (Console Mount)	MS1730 (Desk Mount) MS1735 (Wall Mount) MS1740 (Console Mount)	MS1750 (Desk Mount) MS1755 (Wall Mount) MS1760 (Console Mount)

Note 1) HP G5 Monitors must be used in conjunction with the Monitor Mariner Kit.

##### 2) Compass Safety Distance

Type	1 degree deflection (Steering)	0.3 degree deflection (Standard)
HP E22 G5 FHD	800mm	1200mm
HP E24 G5 FHD	1100mm	1600mm
HP E27 G5 FHD	900mm	1100mm

#### 2. Approved Drawings and Documents

##### 1) Drawings

- QuickSpecs for HP E22 G5 FHD Monitor, No. c08392792-DA17154 Ver. 2, dated 2023-04-12
- QuickSpecs for HP E24 G5 FHD Monitor, No. c08392793-DA17155 Ver. 3, dated 2023-04-12
- QuickSpecs for HP E27 G5 FHD Monitor, No. c08392796-DA17158 Ver. 3, dated 2023-04-12
- MS1710 ASSEMBLY, Drawing No. MS1710\_A Issue 1, dated 2023-09-26
- MS1715 ASSEMBLY, Drawing No. MS1715\_A Issue 1, dated 2023-09-26
- MS1720 ASSEMBLY, Drawing No. MS1720\_A Issue 1, dated 2023-09-04
- MS1730 ASSEMBLY, Drawing No. MS1730\_A Issue 1, dated 2023-09-26
- MS1735 ASSEMBLY, Drawing No. MS1735\_A Issue 1, dated 2023-09-26
- MS1740 ASSEMBLY, Drawing No. MS1740\_A Issue 1, dated 2023-09-04
- MS1750 ASSEMBLY, Drawing No. MS1750\_A Issue 1, dated 2023-09-26
- MS1755 ASSEMBLY, Drawing No. MS1755\_A Issue 1, dated 2023-09-26
- MS1760 ASSEMBLY, Drawing No. MS1760\_A Issue 1, dated 2023-08-21

#### 3. Test Reports, etc.

##### 1) Test Reports

- Test Report No. TL23061 issued by MS Testing, dated 2023-07-31
- Test Report No. TL23062 issued by MS Testing, dated 2023-07-31
- Test Report No. TL23063 issued by MS Testing, dated 2023-07-31

### B. Approval Condition

#### 1. Application & Limitation

- 1) This Approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer is to inform this Society of all kinds of revisions of the equipment including the major changes of software. If the changes are recognized to affect

## Product Description and/or Approval Condition

Date of Issue : 17 January 2024

functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.

- 4) When this system is installed in the vicinity of a standard or a steering magnetic compass, it is to have the minimum safe distance stated in Product Description or more at which it may be mounted from such compasses.

### 2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

### 3. Marking

- 1) The product or packing is to be marked with manufacturer's name and type designation on a suitable position.

### 4. Others

- 1) Test condition (IACS UR E10 Rev.8)

Test	Condition	Remark
EMC	All locations including the bridge and deck zone	-
Temperature	-25 ~ +70°C	-
Vibration	Acceleration $\pm 0.7g$	-

< End of certificate >