



Confirmation of Product Type Approval

Company Name: MARINER SYSTEMS UK LTD

Address: OAKLANDS PARK WOKINGHAM RG41 2FD United Kingdom

Product: Mounting Devices for PCs and Monitors

Model(s): HP E22 G5 FHD 21.5-inch Monitor / HP E24 G5 FHD 23.8-inch Monitor / HP E27 G5 FHD 27-inch Monitor

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2465631-PDA	31-OCT-2023	30-OCT-2028
Manufacturing Assessment (MA)	20-4451837	13-OCT-2020	04-NOV-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Navigation, Control, Loading and General-Purpose Applications.

Description

HP E22 G5 FHD 21.5-inch Monitor must be installed in conjunction with Mariner Kit MS1710, MS1715 or MS1720;

HP E24 G5 FHD 23.8-inch Monitor must be installed in conjunction with Mariner Kit MS1730, MS1735 or MS1740;

HP E27 G5 FHD 27-inch Monitor must be installed in conjunction with Mariner Kit MS1750, MS1755 or MS1760

Ratings

HP E22 G5 FHD: Power Source 100-240 VAC 50/60 Hz, Power Consumption Max 50W, Operating Temperature 5 – 35 Degree C

HP E24 G5 FHD: Power Source 100-240 VAC 50/60 Hz, Power Consumption Max 53W, Operating Temperature 5 – 35 Degree C

HP E24 G5 FHD: Power Source 100-240 VAC 50/60 Hz, Power Consumption Max 50W, Operating Temperature 5 – 35 Degree C

Service Restrictions

1. Unit Certification is not required for this product.

2. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments

1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes, Drawings and Documentation

DWG. NO. HP E22 G5 DoC, HP E22 G5 FHD Declaration of Conformity, pages 1;

DWG. NO. HP E22 G5 QuickSpec, HP E22 G5 FHD QuickSpec v.2, pages 14;

DWG. NO. HP E24 G5 DoC, HP E24 G5 FHD Declaration of Conformity, pages 1;

DWG. NO. HP E24 G5 QuickSpec, HP E24 G5 FHD QuickSpec v.2, pages 14;

DWG. NO. HP E27 G5 DoC, HP E27 G5 FHD Declaration of Conformity, pages 1;

DWG. NO. HP E27 G5 QuickSpec, HP E27 G5 FHD QuickSpec v.2, pages 14;

DWG. NO. MS1710_A, MS1710 Assembly Drawing, pages 1;

DWG. NO. MS1715_A, MS1715 Assembly Drawing, pages 1;

DWG. NO. MS1720_A, MS1720 Assembly Drawing, pages 1;

DWG. NO. MS1730_A, MS1730 Assembly Drawing, pages 1;

DWG. NO. MS1735_A, MS1735 Assembly Drawing, pages 1;

DWG. NO. MS1740_A, MS1740 Assembly Drawing, pages 1;

DWG. NO. MS1750_A, MS1750 Assembly Drawing, pages 1;

DWG. NO. MS1755_A, MS1755 Assembly Drawing, pages 1;

DWG. NO. MS1760_A, MS1760 Assembly Drawing, pages 1;

DWG. NO. Test Requirements, Marine Type Approval Test Requirements Issue 17, pages 62;

DWG. NO. TL23061, TL23061 HP E22 G5 FHD Test Report, pages 151, dated 31 July 2023, issued by MS TESTING;

DWG. NO. TL23062, TL23062 HP E24 G5 FHD Test Report, pages 155, dated 31 July 2023, issued by MS TESTING;

DWG. NO. TL23063, TL26063 HP E27 G5 FHD Test Report, pages 154, dated 31 July 2023, issued by MS TESTING;

DWG. NO. UKAS Schedule, UKAS Schedule of Accreditation Issue 26, pages 10;

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 30/Oct/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2023 Marine Vessels Rules: 1-1-4/7.7, 1-1/A3, 1-1/A4, 4-9-9/Table 1 and Table 2

2023 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3,

2023 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3,

International Standards

EN 62479:2010

EN IEC 62368-1:2020 +A11:2020

IEC 62368-1:2018

EN 55032:2015+A11:2020 Class B

EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019

EN 61000-3-3:2013+A1:2019

IEC 62087:2015

EN 50564:2011

EN IEC 63000:2018

EU-MED Standards

NA

National Standards

FCC CFR 47 Part 15

ICES-003, Issue 7

Government Standards

NA

Other Standards

IACS UR E10 Rev.7 (Oct. 2018) & Rev.8 (Feb. 2021)



A handwritten signature in black ink, appearing to read 'Joseph W. ...', is written over a faint, larger version of the signature.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 28-Nov-2023 8:24

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first),

a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.