



Marine & Offshore  
Division

Certificate number: 42362/A0 BV

File number: AP 4631

Product code: 4482H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**MARINER SYSTEMS (UK) Ltd**

Wokingham - UNITED KINGDOM

*for the type of product*

**MARITIME PERSONAL COMPUTERS**

HP Z440 Workstation

complete with

Mariner Systems Mounting Kits: MS3050 or MS3060

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships  
IEC 60945 (2002), including IEC 60945 Corrigendum 1 (2008)

EC Code: 41B

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 26 Nov 2020**

**For BUREAU VERITAS,**

At BV LONDON, on 26 Nov 2015,

Spencer Yule



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

- Product model or type description:

**HP Z440 Workstation**

- Product description:

**HP Z440 Workstation** must be used in conjunction with the appropriate **Mariner Systems Kits:**

**MS3050** for Desktop configuration

**MS3060** for Tower configuration,

### 2. DOCUMENTS AND DRAWINGS :

**Mariner Systems (UK) Ltd.:**

- Assembly drawing - MS3050\_A Issue 3 (desktop), dated 11 Jun 2015.
- Assembly drawing - MS3060\_A Issue 3 (minitower), dated 11 Jun 2015.
- HP Z440 QuickSpec Datasheet - DA15098 Version 8, dated May 1,2015.
- Mariner Systems Component Options sheet - HP Z440, dated June 12, 2015.
- Mariner Systems Marine Test Requirements Issue 9, dated 18-February-2009.

### 3. TEST REPORTS :

**MS Testing:**

- Test report Unit A No.TL15041, dated 22 May 2015
- Test report Unit B No.TL15039, dated 22 May 2015
- Test report Unit C No.TL15042, dated 26 May 2015

### 4. APPLICATION / LIMITATION :

4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 41B**

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.

4.5 - Each Workstation must be used in conjunction with the appropriate Mariner Systems Kits MS3050 or MS3060.

4.6 - The minimum safe distance at which the equipment may be mounted from a standard or a steering magnetic compass is not to be less than 600mm.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **MARINER SYSTEMS (UK) Ltd.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **MARINER SYSTEMS (UK) Ltd.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

Mounting Kits:

**MARINER SYSTEMS (UK) LTD.**

**Oaklands Park**

**Wokingham**

**Berkshire**

**UNITED KINGDOM**

Workstation:

**HEWLETT PACKARD**

**PO Box 692000**

**Houston**

**Texas**

**77269-2000**

**UNITED STATES OF AMERICA**

**6. MARKING OF PRODUCT :**

- Maker's name or trade mark.
- Serial number of the unit.
- Equipment type or model identification under which it was type-tested.

**7. OTHERS :**

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time, and that **MARINER SYSTEMS (UK) LTD., Wokingham - United Kingdom**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*