



## *Confirmation of Type Approval*

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 12/SEP/2006 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

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 evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

**Mariner Systems (UK) Ltd.**

**Model Name(s): MS980, MS985 and MS1070 mounting devices**

**Presented to:**

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

**Intended Service:**

Environmentally tested for use with HP LP2065 20" TFT monitor intended for service in navigation, loading instrument and general purpose computer applications. The monitor must be used in conjunction with the above mounting device for operation in the marine environment.

**Description:**

The mounting devices are for use with HP LP2065 20" TFT monitor. The monitor was manufactured by HP. Responsibility for manufacture of the products to be used with these mounting devices is Houston HP

**Ratings:**

Power supply: Auto-ranging 90 to 265 V ac

**Service Restrictions:**

Unit certification is not required for the mounting device. The monitor will require Unit Certification if intended for use in any machinery monitoring or directional functions onboard an ABS classed vessel, MODU or facility

**Comments:**

Not Applicable

**Notes / Documentation:**

Approval Documentation: Environmental Test File No.TL1012, and Data sheet: HP LP2065 QuickSpec.

**Term of Validity:**

Certificate 06-LD168643-PDA, dated 16/Aug/2006 is valid for 5 years from date of issue or until the applicable Rules or standards are revised (whichever occurs first). Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted.

**ABS Rules:**

2006 Steel Vessel Rules 1-1-4/7.7 and 4-9-7/ Table 9 & Table 10

**National Standards:**

**International Standards:** IEC 60945 (relevant sections) and IACS E10

**Government Authority:**

**EUMED:**

**Others:**



Manager, ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.