



Confirmation of Product Type Approval 03/MAR/2010

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 28/FEB/2013. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 02/MAR/2015 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

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.

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.

MARINER SYSTEMS UK LTD

**Model Name(s): MS1250, MS1255 and MS1260 mounting devices for use with
HP 24" Widescreen TFT Colour Monitor, Model No.: LA2405wg**

Presented to:

MARINER SYSTEMS UK LTD
OAKLANDS PARK
WOKINGHAM
United Kingdom

Intended Service:

Environmentally tested for use with HP LA2405wg Widescreen 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 devices for operation in the marine environment.

Description:

The mounting devices are for use with HP LA2405wg Widescreen TFT monitor. The monitor is manufactured by HP. Responsibility for manufacture of the products to be used with these mounting devices is HP.

Ratings:

100-240 VAC, 50-60Hz, 45W (Max)

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:

This Product Design Assessment (PDA) 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. Approval documentation: Test report TL1358, Assembly Drawings (MS1250, MS1255 & MS1260). The approved models/model numbers are listed within Mariner Systems (UK) website: www.marinersystems.com

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 10-LD551162-PDA, dated 03/Mar/2010. This PDA Certificate expires

02/Mar/2015. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

ABS Rules:

2010 Steel Vessel Rules 1-1-4/7.7 and 4-9-7/Table 9 & Table 10

National Standards:**International Standards:**

IEC 60945 Ed4.0:2002 (relevant sections); IACS UR E10 Rev5:2006

Government Authority:**EUMED:****Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	10-LD551162-PDA	03/MAR/2010	02/MAR/2015


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.