



NIPPON KAIJI KYOKAI

Certificate

Certificate No. TA10189M

OF APPROVAL
FOR AUTOMATIC DEVICES AND EQUIPMENT

Manufacturer: Mariner Systems (UK) Limited
Place of Manufacturing: Oaklands Park, Wokingham, Berkshire, RG41 2FD
United Kingdom
Product description: 19-inch TFT Monitor
Model: HP LA1951g with Mariner Kit MS1080, MS1085
or MS1090
Approval No.: 10A011
Specification & documents: As shown on the attached sheet (-1/2)
Testing items & approval conditions: As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved in accordance with the requirements specified in Chapter 1, Part 7 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate is valid until 22 April 2015.

Issued at Tokyo on 23 April 2010.

T. Narisawa
General Manager,
Machinery Department

NIPPON KAIJI KYOKAI

Attached sheet - 1/2 to Certificate No. TA10189M

Specification & reference documents:

1. Components and reference drawings:

HP LA1951g : DA-13442

2. Flame retardant statement by Hewlett-Packard (2010/02/08 18:54)

3. Test Reports etc.:

HP LA1951g : TL-1348

-- To be continued --

NIPPON KAIJI KYOKAI

Attached sheet - 2/2 to Certificate No. TA10189M

Testing items & approval conditions:

1. Testing items:

Applied testing items are marked with X.

ENVIRONMENTAL TESTS		Mark
External examination		--
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test	(Pneumatic and Hydraulic)	--
Dry heat test	(Temperature 70°C × 16 hours)	X
Damp heat test		X
Vibration test	(Acceleration ±0.7 g)	X
Inclination test		X
Cold test	(Temperature -25°C × 2 hours)	X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval conditions:

The product is not allowed to be installed on open decks.

-- The end --