



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA19584M

This is to certify that the undernoted product(s) has/have been 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 the relevant Society's Rules.

This certificate is issued to

Manufacturer:	Mariner Systems (UK) Limited
Place of Manufacturing:	Oaklands Park, Wokingham, Berkshire, RG41 2FD United Kingdom
Product description:	HP EliteDisplay E190i 19-inch Monitor
Model:	HP EliteDisplay E190i 19-inch IPS Monitor with Mariner Kit MS1170, MS1175, MS1180
Approval No.:	14A024
Valid until:	26 August 2024

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 27 August 2019.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

NIPPON KAIJI KYOKAI

Attached sheet -1/2 to the Certificate No. TA19584M

Specification & documents:

1. Particulars: Power supply: 100~240 VAC

2. Components and reference drawings:

- DA-14806

- Flame retardant information from Hewlett-Packard (2014/05/27 18:09)

- MS1170_A

- MS1175_A

- MS1180_A

3. Documentation and Test Reports:

- TL-14017 (24th April 2014)

- TL-14017 Issue 3 (4th October 2019)

- To be continued -

Attached sheet -2/2 to the Certificate No. TA19584M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.7 basis)		Mark
External examination		X
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 ±1.0g × 2 hours)		X
Inclination test		X
Cold test (Temperature -25°C × 16 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 condition:

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

- The End -