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Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Mariner Systems (UK) Ltd Oaklands Park Wokingham Berkshire, RG41 2FD United Kingdom (UK)
PLACE OF PRODUCTION	Hewlett-Packard 0555 SH 249 Houston Texas 77070 United States of America (USA)
DESCRIPTION	PC workstation suitable for marine environment
TYPE	HP Z420 Workstation with Mariner MS3030 or MS3040 kit
APPLICATION	Marine, offshore and industrial use in environmental categories ENV1, ENV2 and ENV3 as described in LR Test Specification No. 1: 2002 Workstation must be installed in conjunction with Mariner MS3030 or MS3040 kit. In-line power filter as RF1004-MST-B must be fitted to AC supply when installed on vessel.
Certificate No.	14/00024
Issue Date	24 February 2014
Expiry Date	23 February 2019
Sheet	1 of 2

L. Green
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

Lloyd's Register EMEA
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TECHNICAL DETAILS	Operating Voltage Range: AC 90V-269V, 50/60Hz Rated Voltage Range: AC 100V-240V Rated Input Current: 8A at 100V-240V Heat dissipation; Typical - 1365btu/hr Maximum - 2354btu/hr
SPECIFIED STANDARD	IACS Unified Requirement E10 plus relevant sections of EN60945
OTHER TESTS	Acoustic Noise IEC 60945 - Peak level <60dB (A) at a distance of 1m from any part of product Compass Safe Distance IEC 60945 - 1° deflection at 500mm 0.3° deflection at 700mm

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 14/00024 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	14/00024
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