



Type Approval Certificate

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

Manufacturer	Mariner Systems (Uk) Ltd
Address	Oaklands Park, Wokingham, RG41 2FD, United Kingdom
Type	Marine Computer
Description	Marine Computer HP Z4 G5 Workstation
Trade Name	HP Z4 G5 Workstation
Application	Marine and Offshore LR test specification No 1 2021 for ENV categories ENV1, ENV2 and ENV3.
Ratings	Navigation, Control, Loading and General-Purpose Applications
Additional Tests	IACS E10 Plus Relevant Sections of EN60945 Low Temperature Start Up at -25°C Acoustic Noise 30.4db Compass Safe Distance: 1 Deg Deflection 1100mm 0.3 Deg Deflection 1300mm Shock- 15g for 11mS Ingress Protection IP2X
Other Conditions	Must be installed in conjunction with Mariner Kit MS3110 or MS3120

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Electrical & Control - Senior Specialist to
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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 LR2493361TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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