

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.

This certificate is issued to:

PRODUCER Mariner Systems (UK) Ltd
Oaklands Park
Wokingham
Berkshire, RG41 2FD
United Kingdom (UK)

PLACE OF PRODUCTION Hewlett – Packard ⁽¹⁾
Houston, 20555 SH 249
Houston
Texas 77070
United States of America (USA)

⁽¹⁾ *Models are also manufactured at other global locations where the Quality Control is supervised by the Engineering Division at Houston.*

DESCRIPTION HP Procurve Switches

Must be used in conjunction with the appropriate Mariner Systems Kits:

MS650 - Used with 1400 - 8G (J9077A) and 1700 - 8 (J9079A)
MS660 - Used with 1400 - 24G (J9078A) and 1700 - 24 (J9080A)

TYPE Series 1400 and 1700

APPLICATION Marine and offshore applications in Category ENV1, ENV2 and ENV3 as defined in LR Type Approval Test Specification No. 1 2002 where the Test Specification is satisfactory for the intended operation.

Certificate No. 08/00020

Issue Date 13 April 2008

Expiry Date 12 April 2013

Sheet 1 of 2



M.H.A. Ruffaie
London Design Support Services
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



SPECIFIED STANDARD	Manufacturer's Specification	
ADDITIONAL TESTS	Low Temperature:	- 25°C, 2 hours
	Shock:	15 g / 11mS
OTHER CONDITIONS	Approved when fitted with the appropriate Mariner Systems Kits	
	MS650 -	Used with 1400 - 8G (J9077A) and 1700 - 8 (J9079A)
	MS660 -	Used with 1400 - 24G (J9078A) and 1700 - 24 (J9080A)

"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.08/00020 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	08/00020
Issue Date	13 April 2008
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Sheet	2 of 2

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