

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ 認証証書 ◆



## Marine Equipment Directive Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive 96/98/EC as amended by Commission Directive 2011/75/EU and that the equipment of

***Kelvin Hughes Ltd***

of

Voltage  
Mollison Avenue  
Enfield  
Middlesex  
EN3 7XQ  
United Kingdom

known as

**MantaDigital™ S-VDR**

conforms to the relevant requirements for the following equipment as listed in Marine Equipment Directive Annex A.1:

### **Annex A.1/4.47 Simplified Voyage Data Recorder (VDR)**

as defined in Commission Directive 2011/75/EU

on the basis of the Technical Data and information detailed in the Annex to this certificate.

Signed:

On Behalf of TÜV SÜD BABT

Issue Date:

19 November 2013

Number: BABT-MED001088

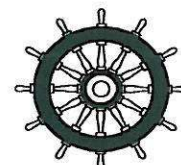
Issue: 02

This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex

This certificate is valid from 19 November 2013 until not later than 18 November 2018

The Conditions for the validity of this certificate are listed in the Annex.

For further details related to this certification please contact [BABT@tuv-sud.co.uk](mailto:BABT@tuv-sud.co.uk)



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TÜV SÜD BABT • TÜV SÜD Group

Octagon House • Concorde Way • Fareham • Hampshire • PO15 5RL • United Kingdom

## Marine Equipment Directive Module B Type Examination Certificate

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### Description of Equipment

Shipborne Simplified Voyage Data Recorder

**Model:** MantaDigital™ Simplified Voyage Data Recorder

**System Components:**

MantaDigital™ Processor	MDP-A5 (S-VDR) or MDP-A8 (S-VDR/ECDIS) <sup>Note 2</sup>
C/W Ancillary Battery Enclosure or MantaDigital™ Processor	MDP-A10
C/W Ancillary Battery Enclosure	MDP-A3 (VDR) or MDP-A7 (VDR/ECDIS) <sup>Note 2</sup>
Fixed Protective capsule or Float-Free Protective Capsule	MDP-A10
Remote Status and Alarm Module	VDR-A5 or -A15 or -A18 or -A19 <sup>Note 3,4 &amp; 5</sup>
Microphone Units	VDR-A16 or A17 <sup>Note 5</sup>
	VDR-A9 <sup>Note 6</sup>
	VDR-A6 (Internal) or VDR-A7 (External) <sup>Note 7</sup>
<b>Optional Components:</b>	
Data Interface Unit	VDR-A4 <sup>Note 8</sup>
Switch Interface Unit	VDR-A4-1 <sup>Note 8</sup>
Removable 2.5" Hard Disk Drive (HDD)	MDP-A149, MDP-A315

**Software:**

Data Acquisition SW (ZM 1912)      Version 1.8.3 <sup>Note 9</sup>

### Standards

BS EN 61996-2:2008  
 BS EN 60945:2002  
 BS EN 61162-1:2011  
 BS EN 62288:2008 <sup>Note 1</sup>

Note 1- The application of this standard is not required as the product does not have a display function.

### IMO Resolutions

IMO Res A.163(78)  
 IMO Res. A.214(81)  
 IMO Res. A.694(17)

### Manufacturer:

**Name:** As Holder  
**Address:** As Holder



## Relevant Technical Documentation

### Manuals:

Operator's handbook KH-2066 revision, Issue 1 amendment 5  
Installation handbook KH-2067 revision, Issue 1 amendment 6

### Technical Document File Indexes:

MDP-K3 Revision 3, 2013-11-15	VDR-K18 Revision 1, 2012-10-05	VDR-K17 Revision 2, 2013-11-18
MDP-K7 Revision 2, 2013-11-15	VDR-K9 Revision 2, 2013-11-18	VDR-K19 Revision 1, 2012-10-05
MDP-K10 Revision 2, 2013-11-18	VDR-K6 Revision 2, 2013-11-18	VDR-K4 Revision 2, 2013-11-18
MDP-K5 Revision 3, 2013-11-18	VDR-K7 Revision 2, 2013-11-18	VDR-K4-1 Revision 2, 2013-11-18
MDP-K8 Revision 2, 2013-11-18	MDP-A315 Revision 1, 2012-10-15	MDP-K149 Revision 1, 2012-10-15
VDR-K5 Revision 2, 2013-11-18	VDR-K16 Revision 2, 2013-11-18	-
VDR-K18-AAAB Revision 1, 2013-11-18	VDR-K15-ABAA Revision 1, 2012-10-15	-

The above being comprehensive listings of documentation relevant to type examination:  
including:-Test reports and details of Approved Hardware defining Overall Build Level and  
including Circuit diagrams, technical drawings and Parts listings (BoM).

### Notes:

- 2 The MDP-A7 or MDP-A8 processor may also run the KH version 3 electronic chart software as an additional facility unconnected with the S-VDR function, the performance of the S-VDR function is unaffected by this additional facility. The approval status of this ECS software is defined in certificate 6579/080330/2004 issued by BSH, Germany on 30/01/2004.
- 3 The fixed protective capsules are OEM units supplied from either Smiths Group or L3 Communications Inc. The Float-Free capsule is from Orolia Ltd or Jotron Electronics AS.
- 4 Standard protective capsules are equipped with 1.75 or 2GB of memory, greater memory capacity versions are available.
- 5 Validity of the type approval of the OEM capsules is not in line with the validity of this certificate, and should be checked for installation of replacement units.
- 6 Optional if VDR Processor Unit is easily accessible on the Bridge.
- 7 Up to 12 microphones may be fitted, external units for exposed bridge wings or similar.
- 8 Multiple units may be fitted but each will use one IEC 61162-1 serial data port in the VDR processor unit.
- 9 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the Certification Regulations of TÜV SÜD BABT.

### **Additional Information:**

The products listed on this certificate were originally assessed and certified by QinetiQ under Notified Body number 0191. This certificate replaces QinetiQ Certificate Number QQ-MED-19/08-02.



## Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module B Certificate relates to Issue 2 of the Certificate.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD BABT or a person appointed by TÜV SÜD BABT to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body."

Signed: Nathan Emery  
on behalf of TÜV SÜD BABT

Date: 19<sup>th</sup> NOVEMBER 2013