



# 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™ Voyage Data Recorder

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

## Annex A.1/4.29 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:

Issue Date:

22 May 2013

On Behalf of TÜV SÜD BABT

Number: BABT-MED001087

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 22 May 2013 until not later than 21 May 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

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0168



## Marine Equipment Directive Module B Type Examination Certificate

## **Description of Equipment**

Shipborne Voyage Data Recorder

Model: MantaDigital™ Voyage Data Recorder

**System Components:** 

MantaDigital™ Processor MDP-A3 (VDR) or MDP-A7 (VDR/ECDIS) Note 2

MDP-A10 C/W Ancillary Battery Enclosure

VDR-A5 or -A18 Note 3&4 Fixed Protective capsule

VDR-A9 Note 5 Remote Status and Alarm Module

Microphone Units VDR-A6 (Internal) or VDR-A7

(External) Note 6

**Optional Components:** 

VDR-A4 Note 7 Data Interface Unit VDR-A4-1 Note 7 Switch Interface Unit

Removable 2.5" Hard Disk Drive MDP-A149, MDP-A315

(HDD)

Software:

Version 1.8.3 Note 8 Data Acquisition S/W (ZM 1912)

Compliance Matrix For MED Item A.1/4.29

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	BS EN 60945:2002	General Requirements for Marine Navigation Equipment" (Inc. Corr1:2008)
IMO Res A.861(20) IMO Res MSC.214(81)	BS EN 61996-1:2008	Maritime navigation and radiocommunication equipment and systems — Shipborne voyage data recorder (VDR)
IMO Res. A.191(79)	BS EN 62288:2008 <sup>Note 1</sup>	Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays
	BS EN 61162-1:2011	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners

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

### Manufacturer:

As Holder Name: Address: As Holder



#### **Relevant Technical Documentation**

Manuals:

Operator's handbook KH-2064 revision, Issue 1 amendment 3 Installation handbook KH-2065 revision, Issue 1 amendment 5

#### Technical Document File Indexes:

MDP-K3 Revision 2, 2012-10-15	VDR-K18 Revision 1, 2012-10-05	VDR-K4 Revision 1, 2012-10-05
MDP-K7 Revision 1, 2012-10-05	VDR-K9 Revision 1, 2012-10-05	VDR-K4-1 Revision 1, 2012-10-05
MDP-K10 Revision 1, 2012-10-05	VDR-K6 Revision 1, 2012-10-05	MDP-K149 Revision 1, 2012-10-15
VDR-K5 Revision 1, 2012-10-05	VDR-K7 Revision 1, 2012-10-05	MDP-A315 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:

- The MDP-A7 processor may also run the KH version 3 electronic chart software as an additional facility unconnected with the VDR function, the performance of the 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.
- The fixed protective capsules are OEM units supplied from either Smiths Group or L3 Communications Inc.
- 4 Standard protective capsules are equipped with 1.75 or 2GB of memory, greater memory capacity versions are available.
- 5 Optional if VDR Processor Unit is easily accessible on the Bridge.
- 6 Up to 12 microphones may be fitted, external units for exposed bridge wings or similar.
- 7 Multiple units may be fitted but each will use one IEC 61162-1 serial data port in the VDR processor unit.
- 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.

#### U.S. Coast Guard Number :

This product has been assigned U.S. Coast Guard Module B number 165.150/EC0168

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27<sup>th,</sup> 2004



## **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.

In accordance with IMO Resolution MSC.333(90) the standards listed on this certificate are not valid for installations after 1st July 2014.

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: MATOU

on behalf of TÜV SÜD BABT

Date: 22 May 2015.