DNV·GL

Certificate No: MEDB000001S

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Electronic chart display and information system (ECDIS)

with type designation(s) **TECDIS**

Issued to

Telko AS TJØME, Norway

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/4.30 and Annex B, Module B in the Directive. IMO Resolutions A.694(17), MSC.191(79) & MSC.232(82)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until 2016-08-31.

Issued at Høvik on 2016-02-04

DNV GL local station: Sandefjord

Approval Engineer: **Frederik Tore Elter**

for DNV GL AS

Notified Body No.: **0575**

Vidar Dolonen **Head of Notified Body**



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

Product description

The TECDIS is consisting of the following components:

Unit	of the following components: Components	Remark	
Main processing unit:	HT C01 TEL-A596,or	Kenark	
main processing unit.	HT C01 TEL-D596, or	Embedded graphics	
	HD 24T21 MEC-M3D-ACB2 or	. Embedded grapmcs	
	Enix-2077-TEL-D1 or		
	HT C02HJ TEC-C44-AA00		
Display unit:	Hatteland Display JH19T14MMD, or		
	Hatteland Display JH20T17MMD, or	DVI connection,	
	Hatteland Display JH23T12MMD, or		
	Hatteland Display JH23T14 MMD, or		
	Hatteland Display HD19T03 BOAA, or		
	Hatteland Display HD19T21 MMD, or		
	Hatteland Display HD24T21 MMD, or		
	Hatteland Display HD26T21 MMD, or		
	Furuno MU-201CE, or		
	Furuno MU-231CE or		
	ISIC DuraMON 19 LED or		
	ISIC DuraMON 26 WS		
Keyboard/ Trackball ¹⁾ :	BTC5100C PS/2, or		
	Cherry G84-4100LCMGB-2 or	1) Both keyboard and a trackball are	
	Keytouch Panel QWERTY,	¹⁾ Both keyboard and a trackball are required	
	and		
	MouseTRAK B-MPIND-XROHS, or		
	MouseTRAK B-USBID-XROHS, or		
	Logitech Trackman Marble – ELK, or		
	Keytouch Panel Camba ²	²⁾ Combined unit	
	or Keytouch Panel Combo ²⁾ ,	. Combined anic	
	TECDIS Keypad ³⁾ (Keytouch PN17610415) RCU-018 ³⁾	³⁾ Option	
	RCU-018-7	·	
Loudspeakers(option):	DNH HP-6, or	Loudspeaker is required only when	
	DNH HPS-6	display unit does not include a buzzer and RCU-018 is not connected.	
Serial Interface:	Moxa Opt.8F	⁴⁾ Enix-2077 only	
	Moxa CP-114EL-I(CV-150k) ⁴⁾	⁵⁾ HD 24T21 MEC-M3D-ACB2 and	
	Hatteland Display PCA100293-1 ⁵⁾	HT C02HJ TEC-C44-AA00	
LAN interface:	Intel IQ87-PLH3 ⁶⁾	⁶⁾ HT C02HJ TEC-C44-AA00	
Software Versions:			
TECDIS	4.7.1.x or 4.7.2.x	x ≥ 30	
Telko Chart Loader	2.nn		
	MC	⁷⁾ HT C01 TEL-A596 and HT C01	
OS	Windows 7 or Windows XP ⁷⁾	ALL COT LET-WORD WING LIL COT	
OS	Windows 7 or Windows XP	TEL-D596	

For latest revision of the Appendix, see http://exchange.dnv.com/tari

Form code: MED 101.NOR Revision: 2015-11 www.dnvgl.com Page 2 of 5

Application/Limitation

- A dual installation of TECDIS is found to comply with the SOLAS requirements for ECDIS with Back-up arrangements.
- TECDIS may optionally be provided with radar overlay functionality.
- TECDIS may optionally be provided with weather information overlay functionality.
- TECDIS may optionally be provided with *C-Routes* routing advisory functionality.
- TECDIS may optionally be connected to internet via "secure web-tunneling". 1)
- TECDIS may optionally support uploading of SENC delivery (CM93/3 format) via external link.
- TECDIS may be optionally provided with C-Map Update Service functionality.
- TECDIS may be optionally provided with Navtor NavSync chart update functionality.
- TECDIS may be optionally provided with chart synchronization functionality.
- The TECDIS monitor may optionally be interconnected with a video source via a separate input port for presentation of video. The ECDIS monitor shall be marked with "**ECDIS**".
- TECDIS may provide conning information to a separate monitor.
 - Conning image is found to be in accordance with requirements listed in DNV Rules for Ships Pt. 6 Ch.8 and Pt. 6 Ch.20, January 2014, for forward and aft oriented ships symbol.
 - Fallback arrangement may be achieved by connecting conning monitor to TECDIS and a dedicated conning computer or to two TECDIS computers.
 - o For Conning installation components listed under TECDIS product description are to be used.
- TECDIS may provide re-transmittable binary images in accordance with IEC61162-450 to VDR.
- TECDIS may be interfaced to either RADAR or AIS, or both, for target presentation. If TECDIS is interfaced to both AIS and RADAR, RADAR is to support TLB sentence.
- The TECDIS shall be commissioned and tested onboard according to the Installation Manual.
 Note

 $^{1)}$ a physical disconnetion device (e.g. switch) shall be provided in the vicinity of the TECDIS – and be properly marked

Type Examination documentation

DNVGL No.	Document No.	Document Title
131		TECDIS Feature Guide 4.7.x.30
125		Report: Confirmance test of TECDIS Conning with DNV Rules for ships.
124		Report: Confirmance test of TECDIS binary image transfer with IEC61162-450
123		Report: Conformace test of TECDIS with IEC62288 2nd edition
121		TECDIS Conning installation for fall-back arrangements
117		TECDIS Manual 3_30 EN
113		TECDIS 4.7.x.30 List of alerts rev.5
106	DOC101936-1R2	Appendix IEC62288 JH20T17
105	DOC101935-1R2	Appendix IEC62288 JH19T14 HW06
104	DOC101901-1R2	Appendix IEC62288 JH 23T14
103	DOC101900-1R2	Appendix IEC62288 HD 19T21
102	DOC101896-1R2	Appendix IEC62288 HD 24T21
101	DOC101895-1R5	Appendix IEC62288 HD 26T21
97		Statement from ITAC - trackball B-MPIND-XROHS REV C

Form code: MED 101.NOR Revision: 2015-11 www.dnvql.com Page 3 of 5

Type Examination documentation cont.:

Document TitleNo.Document Title96SP05980Report: EMC testing og USB Mouse - Track IEC6094592IQ87-PLH3 and MAX3535ELAN and Serial interface documentation91DNV 2013-3135TECDIS Installation Manual90DNV 2013-3135EMC and environmental testing of HT B22GE STC-C4K-8989Applica 20385EMC and environmental testing of HT 221HK STC-A6D-8888Applica 20287EMC and environmental testing of HT C02HJ STC-A4D-8687Applica 20286EMC and environmental testing of HT C02HJ STC-A4D-8586Applica 20373EMC and environmental testing of HT C02HJ STC-A4D-8485Applica 20285EMC and environmental testing of HT C02HJ STC-A4D-848420316Interconnection test of Moxa Multiport Serial board -IEC832014.03.04TECDIS Keypad Conformance test w/video switch82TECDIS Keypad user manual8025.02.2014Installation notes - TECDIS Keypad EN782008-3425DNV Environmental & EMC test report: Keytouch77Nemco E12134.04IEC60945 - Test Report: enix-2067/3076/3000/207776TECDIS Conformance test of a Electronic Chart Display Information System 26 August 2013742013-3135EMC and Environmental Testing of Maritime Multi Display MMD-MA1-FAGP712012-3372EMC and Environmental Testing of JH 26T11 MMD-MA1 Maritime Multi Display	-A000-ES12 -A000-ES1 -A000-ES2 -A000-ES11 -A000-ES1
92IQ87-PLH3 and MAX3535ELAN and Serial interface documentation91DNV 2013-3135TECDIS Installation Manual90DNV 2013-3135EMC and environmental testing of HT B22GE STC-C4K-89Applica 20385EMC and environmental testing of HT 221HK STC-A6D-88Applica 20287EMC and environmental testing of HT 221HJ STC-A4D-87Applica 20286EMC and environmental testing of HT C02HJ STC-A4D-86Applica 20373EMC and environmental testing of HT C02HJ STC-A4D-85Applica 20285EMC and environmental testing of HT C02HJ STC-A4D-8420316Interconnection test of Moxa Multiport Serial board -IEC832014.03.04TECDIS Keypad Conformance test w/video switch82TECDIS Keypad user manual8025.02.2014Installation notes - TECDIS Keypad EN782008-3425DNV Environmental & EMC test report: Keytouch77Nemco E12134.04IEC60945 - Test Report: enix-2067/3076/3000/207776TECDIS Conformance test of a Electronic Chart Display Information System 26 August 2013742013-3135EMC and Environmental Testing of Maritime Computer STC-C4K-M100722012-3372EMC and Environmental Testing of Maritime Multi Display MMD-MA1-FAGP712011-3396EMC and Environmantal Testing of JH 26T11 MMD-MA1	-A000-ES12 -A000-ES1 -A000-ES2 -A000-ES11 -A000-ES1
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	lay HD 24T21
Maritime Multi Display	1-AOBC
70 DOC101183-1 Conformance Test Report of LCD for use in Radar and E 26T21 MMD-MA4-FAGA	ECDIS - HD
69 DOC101257-1 Conformance Test Report of LCD for use in Radar and E 24T21 MMD-MA1-FAGA	ECDIS - HD
68 DOC101223-1 Conformance Test Report of LCD for use in Radar and E 19T21 MMD-MA1-FOGA	ECDIS - HD
67 DOC101028-1 Conformance Test Report of LCD for use in Radar and E 24T21 MMC-MJD-AAB2	ECDIS - HD
66 DOC101145-1 Series X Corrosion Statement	
65 E12140.02 Nemko Test Report Color Verification MD 26 KM05	
64 E13034.02 Nemko Test Report Color Verification DuraMon 19 LED	ı
63 DANAK-1911472 Test for Marine Type Approval of MD26 16:10 ECDIS KI	
62 PX25885-1 Type approval test of 19" DuraMon monitor	KM05

Form code: MED 101.NOR Revision: 2015-11 www.dnvgl.com Page 4 of 5

Type Examination documentation cont.:

DNVGL No.	Document No.	Document Title
59	2012-3302	EMC and Environmental testing of Maritime Display HD 19T21 MMD-MA1-FAGA
58	2011-3475	EMC and Environmental testing of panel computer HD 24T21 MMC-MJD-AAB2
57		Conformance test of chart synchronization and new updating means dated 27. June 2013
56		TECDIS Synchronization User Guide 27. June 2013
55		TECDIS Synchronization Installation Guide 25. June 2013
51	DOC100883-4	Conformance Test Report of LCD for use in RADAR and ECDIS - JH23T14MMD-MA1-AABA
50	E501200-2	Test Report - DANAK - Type Approval Testing of 23.1 Inch MarineMonitor
49	E501200-1	Test Report - DANAK - Type Approval Testing of 20.1 Inch MarineMonitor
47	DOC100883-2	Conformance Test Report of LCD for use in RADAR and ECDIS - ISIC MU-231CE

Tests carried out

- Performance testing, IEC 61174 (2008)
- Performance testing, presentation, IEC 62288 (2014)
- Environmental testing, IEC 60945 (2002)
- Serial interface testing, IEC 61162-1 (2010)

Marking of product

The manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/ or supply voltage.

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate

must be verified by the Notified Body who also shall issue a Certificate of Conformity.

Form code: MED 101.NOR Revision: 2015-11 www.dnvgl.com Page 5 of 5