



Danmark

Marine Equipment Directive EU Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2022/1157
Certificate Holder and Manufacturer	Jotron AS Ringdalskogen 8 3270 Larvik Norway
Product(s)	Tron 40VDR AIS
Product Sector	Radiocommunications Equipment
Product Type	MED/5.6 406MHz EPIRB (Cospas-Sarsat)

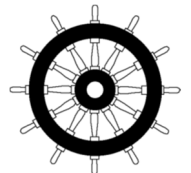
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 04 May 2023


(Tom Twynam)

Expiry Date: 30 June 2027

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com

**2443**

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Page 1 of 4

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Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

1 Equipment Description

Float free EPIRB (Emergency Position Indicating Radio Beacon) and Voyage Data Recorder (VDR) Storage Medium.

1.1 Models

Model
Tron 40VDR AIS

1.1.1 Main Components Note 1 & 2

Part No.	Description
103200	Tron 40VDR AIS with bracket
103190	Tron 40VDR AIS Capsule with Heating Bracket

1.1.2 Optional Components

Part No.	Description
103742	Spare 40VDR AIS EPIRB without storage module
103960	Spare 40VDR AIS EPIRB w/Storage 80G Module
103550	SBM battery kit Tron 40VDR AIS
88102	Spare FB-40 Bracket for 40VDR AIS without Docking Module
100800	Spare FBH-40 Heating Bracket for 40VDR AIS without Docking Module
104069	Spare 40VDR AIS Storage module 80GB
100941	Spare 40VDR Docking Module MkII
86218	HRU-kit w/H20, HAMMAR hydrostatic release mechanism

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/5.6 Note 3

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1 (2008)	General Requirements for Marine Navigation Equipment
IMO Res.MSC471(101) IMO Res MSC/Circ 862 IMO Res A.662(16) ITU-R M.633-4 (12/10) ITU-R M.690-3 (03/15)	IEC 61097-2 (2021) inc. Corr 1 (2021)	Global maritime distress and safety system (GMDSS) - Part 2: COSPAS-SARSAT EPIRB - Satellite emergency position indicating radio beacon operating on 406 MHz

The Tron 40VDR AIS also fulfils the requirements of a Float-Free Storage Medium for use with Voyage Data Recorders in line with IMO Res.MSC.493(104) and MSC.494(104). See Section 3.3



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

3 Technical Documentation

3.1 Declaration of Conformity

Tron40VDR AIS_DoC	Modified	2023-04-11
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3.2 User Guide

Tron 40VDR AIS Float-free EPIRB with storage module User Manual, Rev C	Modified	2021-09-27
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3.3 Test Reports

3.3.1 IEC 61097-2 (2021) inc. Corr.1

75950873-01 Issue 02	Dated	2021-11-18
75950873-07 Issue 02	Dated	2022-03-15
E20137.03	Dated	2020-09-02
E21143.01	Dated	2021-09-28
104751643LHD-001a Issue 1	Dated	2021-10-22
BSH/454.GNSS/TUVSUDLtd/6	Dated	2021-11-15
75950873-08 Issue 03	Dated	2022-03-30
75958073-09 Issue 01	Dated	2022-01-28
E20136.03	Dated	2020-09-02

3.3.2 IEC 60945 (2002) inc. Corr.1

75950873-07 Issue 02	Dated	2022-03-15
75950873-02 Issue 02	Dated	2022-04-28
75950873-06 Issue 03	Dated	2022-01-24
75950873-11 Issue 01	Dated	2022-03-02
E21042	Dated	2021-03-05
P109335	Dated	2021-03-01

3.3.3 IEC 61996-1 (2013) + Amendment 1 (2021)

E21187	Dated	2022-02-10
E13261	Dated	2015-03-03

3.4 Build Status

3.4.1 Hardware

Hardware Version: Revision 2020		
Schematic:101918	Dated	2020-11-21
Statement Modification States	Dated	2022-02-11

3.4.2 Software ^{Note 4}

Tron 40VDR AIS Software Version: Revision 1.2

3.5 Notes

Note 1 These units are tested and assessed to Class 2 temperature requirements.

Note 2 These units are supplied together with an auto-release housing (FB-40 or FB-40H).

Note 3 Marine COSPAS-SARSAT 406MHz EPIRBs form a distress alerting component of the Global Maritime Distress & Safety System (GMDSS). These beacons have been granted COSPAS-SARSAT Type Approval Certification; TAC No.354 and TAC No. 1354 dated 04 February 2022.

Note 4 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

4 Conditions of Validity

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

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

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 the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature:

A handwritten signature in blue ink that reads 'T. J. Twynam'.

(Thomas J. Twynam)

Date:

2023-05-04

On behalf of TÜV SÜD DANMARK ApS