

Marine Equipment Directive EC 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 60AIS
Product Sector	Radiocommunications Equipment
Product Type	MED/5.6 406MHz EPIRB (Cospas-Sarsat)

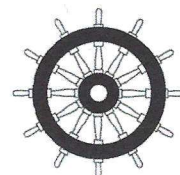
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 15 August 2022


(Tom Twynam)

Expiry Date: 14 August 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



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Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Float free EPIRB (Emergency Position Indicating Radio Beacon)

1.1 Models

Model
Tron 60AIS

1.1.1 Main Components Note 1, 2 & 3

Model	Description
103170	Tron 60AIS with float free bracket
103180	Tron 60AIS with manual bracket

1.1.2 Optional Components

Model	Description
103570	Tron 60AIS SBM kit
104204	Spare FB-60 Bracket with Protective cover
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 4

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

3 Technical Documentation

3.1 Declaration of Conformity

Tron60AIS_DoC Modified 2022-03-07

3.2 User Guide

Tron 60AIS Float-free EPIRB User Manual, Rev D Modified 2021-10-22



Danmark

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3.3 Test Reports

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

E21143.01	Dated	2021-09-28
104751643LHD-001a Issue 1	Dated	2021-10-22
BSH/454.GNSS/TUVSUDLtd/6	Dated	2021-11-15
75960996-08 Issue 03	Dated	2022-03-31
75950996-09 Issue 01	Dated	2022-01-28
75950996-01 Issue 04	Dated	2021-12-15
75950996-07 Issue 02	Dated	2022-03-15
11-11, 2012-01-04	Dated	2012-01-04

3.3.2 IEC 60945 (2002) inc. Corr.1

75950996-07 Issue 02	Dated	2022-03-15
75950873-07 Issue 02	Dated	2022-03-15
E21042	Dated	2021-03-05
P109335	Dated	2021-03-01
75950996-02 Issue 02	Dated	2022-04-28
75950996-06 Issue 01	Dated	2022-01-11
75950996-11 Issue 01	Dated	2022-03-02

3.4 Build Status

3.4.1 Hardware

Hardware Version: Revision 2021		
Schematic:102920	Modified	2022-01-18
Statement Modification States	Dated	2022-02-11

3.4.2 Software ^{Note 5}

Tron 60AIS 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-60) or a manual bracket (MB-60).
Note 3	The MB-60 manual bracket is for protected/indoor use only.
Note 4	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.351 and TAC No. 1351 dated 06 January 2022.
Note 5	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



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: 
(Thomas J. Twynam)

Date: 2022-08-15

On behalf of TÜV SÜD DANMARK ApS