



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 AIS-SART
Product Sector	Navigation equipment
Product Type	MED/4.55 Search and rescue locating devices (SRLD):AIS SART equipment

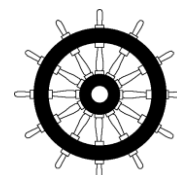
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 23 May 2023

(Signature)

Expiry Date: 21 November 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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Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

AIS SART equipment

1.1 Models

Model
Tron AIS-SART

1.1.1 System Components

Model	Description
85037	Tron AIS-SART
82615	Battery SART20/AIS-SART 5 Year maint.kit (SAFT LSH 14 light)
82749	Wall Bracket

1.2 Software ^{Note 1}

Identity	Description
01.01.XX	Tron AIS-SART

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/4.55

IMO Resolutions	International Testing Standards	
Resolution A694(17)	IEC 60945:2002 inc. Corr.1:2008	Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results
IMO Res.MSC.246(83)	IEC 61097-14:2010	Global maritime distress and safety system (GMDSS) - Part 14: AIS Search and Rescue Transmitter (AIS-SART) - Operational and performance requirements, methods of testing and required test results
ITU-RM.1371-5:2014		

3 Technical Documentation

3.1 Declaration of Conformity

12.04.2023_v.27_Trone AIS-SART_DoC Dated 2023-04-12

3.2 User Guide

User-Manual-Tron-AIS-SART 85355 Rev. H Dated 2021-11-22



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3.3 Test Reports

3.3.1 IEC 60945:2002 inc. Corr.1:2008

126928/03	Dated	2009-11-09
Jotron Test report Tron AIS-SART	Dated	2009-07-06
Waiver of solar, oil and water	Dated	2009-08-22
Statement Tron AIS-SART - IEC 60945 § 6	Dated	2022-11-25

3.3.2 IEC 61097-14:2010

BSH/4615/4361270/09/S3140	Dated	2009-12-08
126928/03	Dated	2009-11-09
BSH/4543/001/4142886/15	Dated	2015-01-26

3.4 Build Status

3.4.1 Hardware

ais-sart-blockdiagram X-84201	Dated	2009-07-06
Mainboard Tron AIS SART – 84201	Dated	2006-04-05
KP-BTM-84202r1006	Dated	2007-08-10
KP-TOP-84202r1006	Dated	2007-08-10
84201SMDMainboardTronAISSART 221027-123301	Modified	2022-10-27

3.5 Notes

Note 1 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. XX in the software version denotes software changes which do not have an impact on this Type Approval

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:

M Hardy
(M J Hardy)

Date:

23/05/2023

On behalf of TÜV SÜD DANMARK ApS