



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 TR30 AIR
Product Sector	Radio-communication equipment
Product Type	MED/5.16 Aeronautical two-way VHF radio telephone apparatus

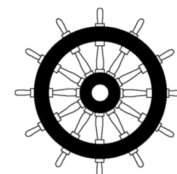
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 11 May 2023


(Tom Twynam)

Expiry Date: 05 September 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

Aeronautical two-way VHF radio telephone apparatus

1.1 Models

Model
Tron TR30 AIR

1.1.1 System Components

Part No.	Description
101700	Tron TR30 AIR Handheld Emergency AM aeronautical radio
101035	TR30 AIR Emergency Battery (L91 Energizer Lithium)
101710	TR30 AIR Battery Test (L91 Energizer Lithium)
101720	TR30 AIR Radio Holder RH-30
102917	TR30 AIR Antenna

1.2 Software Note 1

Identity	Description
Software	3.2.x AIR

2 Assessed Requirements

2.1 Implementing Regulation (EU)2022/1157

2.2 Compliance Requirements for MED/5.16

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.MSC.80(70)	ETSI EN 301 688 V1.2.1:2016-03	Technical characteristics and methods of measurement for fixed and portable VHF equipment operating on 121,5 MHz and 123,1 MHz
IMO COMSAR/Circ.32		
ICAO Convention, Annex 10, Radio Regulations		

3 Technical Documentation

3.1 Declaration of Conformity

12.04.2023_v.19_TronTR30AIR_DoC Modified 2023-04-12

3.2 User Guide

Doc. No.: 101770 Rev. B Dated 2021-12-13



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Annex to Marine Equipment Directive Module B Type Examination Certificate

3.3 Test Reports

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

E19058.00	Issued	2019-04-05
E19028.00	Issued	2019-03-19
Waiver_TR30_AIR	Dated	2019-03-22
75933035 Report 01 Issue 01	Issued	2016-08-26

3.3.2 ETSI EN 301 688 V1.2.1:2016-03

356984-01	Issued	2019-03-26
E19028.00	Issued	2019-03-19
Switching time	Dated	2022-08-30

3.4 Hardware Build Status

Radio PCB 101733 Rev R1844	Dated	2018-03-12
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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. For the Tron TR30 AIR Software version, x identifies software changes which have no impact on 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: 
(Thomas J. Twynam)

Date: 2023-05-11

On behalf of TÜV SÜD DANMARK ApS