



UK Approved Body Authorised  
by the MCA



## Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TUV SUD BABT UNLIMITED did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

<b>MSN 1874 Amendment</b>	<b>Amendment 6</b>
<b>Certificate Holder and Manufacturer</b>	<b>Jotron AS Ringdalskogen 8 3270 Larvik Norway</b>
<b>Product(s)</b>	<b>Tron TR30 AIR</b>
<b>Product Sector</b>	<b>Radio-communication equipment</b>
<b>Product Type</b>	<b>UK/5.16 Aeronautical two-way VHF radio telephone apparatus</b>

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

Valid from: 06 September 2022 (Signature)

*M Hardy*

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](mailto:BABT@tuvsud.com)



**0168**

Issued by TUV SUD BABT Unlimited under document number: BABT- UKMA000057 Issue 01

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# Annex to Marine Equipment UK Conformity Assessment 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

Model	Description
101730	TR30 AIR Assembly
87086	Battery (Primary Lithium)
83426	Battery (Test)
107720	RH-30 Radio Holder TR30
101740	Antenna TR30 AIR

### 1.2 Software

Identity	Description
Software	3.2.0 AIR

## 2 Assessed Requirements

### 2.1 MSN 1874 Amendment 6 Annex 1

### 2.2 Compliance Requirements for UK/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

08.06.2022\_v.11\_TrónTR30AIR\_DoC

Modified

2022-06-08

### 3.2 User Guide

Doc. No.: 101770 Rev. B

Dated

2021-12-13

# Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

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## 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

Battery PCB 87671 Rev R1320	Dated	2013-05-16
Radio PCB 101733 Rev R1844	Dated	2018-03-12
Part Revision - 83426 - TR30 Test Battery	Dated	2019-03-11
Part Revision - 87086 - Tron TR30 Emergency GMDSS battery	Dated	2019-03-11
Part Revision - 101700 - Tron TR30 AIR	Dated	2019-03-11
Part Revision - 101720 - RH-30 Radio Holder TR30	Dated	2019-03-11
Part Revision - 101730 - TR30 AIR-Assembly	Dated	2019-03-11
Part Revision - 101731 - Front Module TR30 AIR	Dated	2019-03-11
Part Revision - 101732 - Mainboard Module TR30 AIR	Dated	2019-03-11
Part Revision - 101733 - Mainboard TR30 AIR	Dated	2019-03-11
Part Revision - 101884 - TR30 Battery	Dated	2019-03-11
Part Revision - 102255 - TR30 Primary Battery (Black)	Dated	2019-03-11

## 3.5 Notes

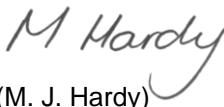
Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

## 4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TUV SUD BABT or a person appointed by TUV SUD BABT to perform that role.

Should the specified regulations (international conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through MSN 1874 during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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 Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature:   
(M. J. Hardy)

On behalf of TUV SUD BABT UNLIMITED

Date: 06/09/2022