



#### 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 type of 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.

**MSN 1874 Amendment Amendment 10** 

Certificate Holder and

Manufacturer

Ringdalskogen 8 3270 Larvik

Norway

**Jotron AS** 

Tron AIS TR-8000 MkII Product(s)

**Product Sector Navigation equipment** 

**Product Type** UK/4.32 Universal automatic identification system equipment (AIS)

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

Valid from: 22 September 2025 (M J Hardy) Expiry Date: 04 December 2027

TÜV SÜD BABT is a UKAS accredited Certification Body No. 0172. This certificate has been issued in accordance with the TÜV SÜD Testing, Certification, Validation and Verification 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



Issued by TUV SUD BABT Unlimited under document number: BABT-UKMA000062 Issue 02

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

#### 1 **Equipment Description**

Universal automatic identification system equipment (AIS)

#### 1.1 Models

Model
103650 Tron AIS TR-8000 MKII Transponder Unit Note 1
103660 Tron AIS TR-8000 MkII Class A complete with GPS antenna
103670 Tron AIS TR-8000 MkII complete IMO package

#### 1.1.1 System Components

Model	Description
103708	TR-8000 Transponder Unit
85400	TR-8000 Display Unit
86853	GPS Antenna, std
86581	Power cable, Display unit

#### 2 Assessed Requirements

#### 2.1 MSN 1874 Amendment 10 Annex 1

#### 2.2 Compliance Requirements for UK/4.32 Row 2 of 2 Notes 2&3

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg V/18 SOLAS 74 Reg X/3 IMO Res MSC.36(63)-(1994 HSC Code) 13 IMO Res MSC.97(73)-(2000 HSC Code) 13	SOLAS 74 Reg V/19 IMO Res A.694(17) IMO Res MSC.36(63)-(1994 HSC Code) 13 IMO Res MSC.97(73)-(2000 HSC Code) 13 IMO Res MSC.74(69) IMO Res MSC.191(79) MO Res MSC.302(87) ITU-RM 1371-5 (02-2014) Note: ITU-RM 1371-5 (02-2014) shall only be applicable in accordance with requirements of IMO Res MSC.74(69)
Assessed Testing Standards	
IEC 60945:2002 incl. 60945 corr.1:2008	IEC 61162-1:2016
IEC 61162-2 Ed.1.0:1998- 09	IEC 61993-2:2018
IEC 62288 Ed 3.0:2021	IEC 62923-1:2018
IEC 62923-2:2018	-

#### 3 Technical Documentation

#### 3.1 Declaration of Conformity

10.09.2025_v.44 Tron AIS TR8000MkII DoC	Modified	2025-09-10
3.2 User Guide		
103836 Rev.A TR8000 MkII - Quick Reference Guide	Dated	2021-08-26
103839 Rev.B TR8000 MkII - Operation and Installation Manual	Dated	2025-09-10
103840 Rev.6 TR8000 Technical Manual	Dated	2020-12-17

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3.3	Test Reports		
3.3.1	IEC 60945:2002 inc. Corr.1:2008		
161140/2 BSH/46121/4321890/12-6 BSH/46121/4321890/12-4		Dated Dated Dated	2011-12-28 2012-04-18 2012-04-20
3.3.2	IEC 61993-2:2018		
BSH/46 BSH/46 150521 BSH/45 3.3.3 BSH/46 BSH/45	4.AIS-A/Jotron Tron TR-8000/4 121/4321890/12-1 43/001/4322981/15-1 121/4321890/12-4  4.AIS-A/Jotron Tron TR-8000/5 IEC 62288 Ed. 2.0:2014-07 121/4321890/12-3 43/001/4322981/15-3 4.AIS-A/Jotron Tron TR-8000/5	Dated	2021-06-18 2012-04-19 2015-12-02 2012-04-20 2012-04-18 2022-11-18 2019-04-12 2015-12-02 2022-11-18
	C-62288-ED2-ED3	Modified	2025-09-10
3.3.4	IEC62923-1:2018 and IEC62923-2:2018		
Stateme	4.AIS-A/Jotron Tron TR-8000/4 ent BAM - TR-8000MkII	Dated Dated	2021-06-18 2022-11-21
3.3.5	IEC 61162-1:2016 and IEC 61162-2 Ed.1.0:1998-09		
BSH/46 BSH/45	43/001/4322725/14-1 121/4321890/12-1 43/001/4142941/15 4.AIS-A/Jotron Tron TR-8000/5	Dated Dated Dated Dated	2014-07-09 2012-04-19 2015-12-07 2022-11-18
3.4	Build Status		
3.4.1	Hardware		
BOM TF	atics_TR8000 MkII Controller Drawing 85301 R8000 MkII rev 2036 eringPartRevision85400TR8000DisplayUnit 221018-125151 Software	Dated Dated Dated	2009-10-16 2021-06-14 2022-10-18
	e display e transponder	01.02 01.02	

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

Validation and Verification Regulations.

# Notes Note 1 An additional minimum keyboard and display (MKD) is required to meet the requirements of MSN 1874 Amendment 10 item UK/4.32. Note 2 Ethernet port is only for connection between TR8000 transceiver and TR8000 display(s). Note 3 The products listed meet the requirements of IEC 62923-1 for EUT function type P. 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, Certification,

#### 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.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

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: Date: 22/09/2025

On behalf of TUV SUD BABT UNLIMITED