

# Tron AIS TR-8000 MkII

## AIS Class A / Inland AIS Transponder Quick Reference Guide





| <b>Document revision log</b> |                          |                                                                                                             |        |          |
|------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------|--------|----------|
| C                            | 03.07.25                 | Updated to latest company profile. Updated addresses on back cover. Edited for clarity and corrected typos. | KTH    | JES      |
| B                            | 03.01.22                 | Added Dual Display drwing in chap 3.                                                                        | ØB     | N/A      |
| A                            | 26.08.21                 | New MkII manual in new company profile                                                                      | ØB     | N/A      |
| Rev                          | Issue Date<br>(DD.MM.YY) | Reason for Issue                                                                                            | Author | Approval |

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# 1 Introduction

Thank you for purchasing this Jotron AIS Class A transceiver.

The Jotron TR-8000 MkII has been developed to offer you the highest level of performance and durability and we hope that it will provide many years of reliable service. This product has been designed to meet the highest possible quality standards. Should you encounter any problems with this product, please contact your local dealer who will be pleased to offer any assistance.

Jotron Tron AIS TR-8000 MkII consists of two separate units interconnected by Ethernet. The Transponder Unit is the main unit, handling the basic AIS functionality, including sensors and RF functions, while the Display Unit is used for setup and display of the AIS data.

This leaflet is a “Quick guide” with references to the two manuals:

- Tron AIS TR-8000 MkII - Operators and Installation Manual
- Tron AIS TR-8000 - Technical Manual

These manuals are available for download at: <https://www.jotron.com/products/maritime-communication>



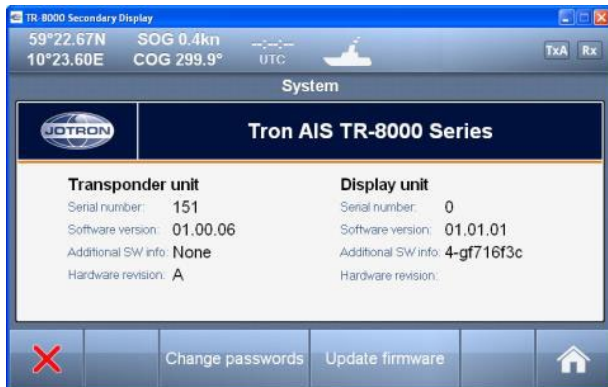
## 2 Software revisions

The TR-8000 is delivered with software version according to the table below which is filled in by Jotron, our Distributor, Dealer, or Installation company. When the software update is done according to instructions in Jotron TB 01-2012 (Technical Bulletin), an additional line of information shall be filled in to reflect the latest change. There will be no need for retraining after SW upgrade is performed.

The sub menu that shows software versions can be found by selecting:



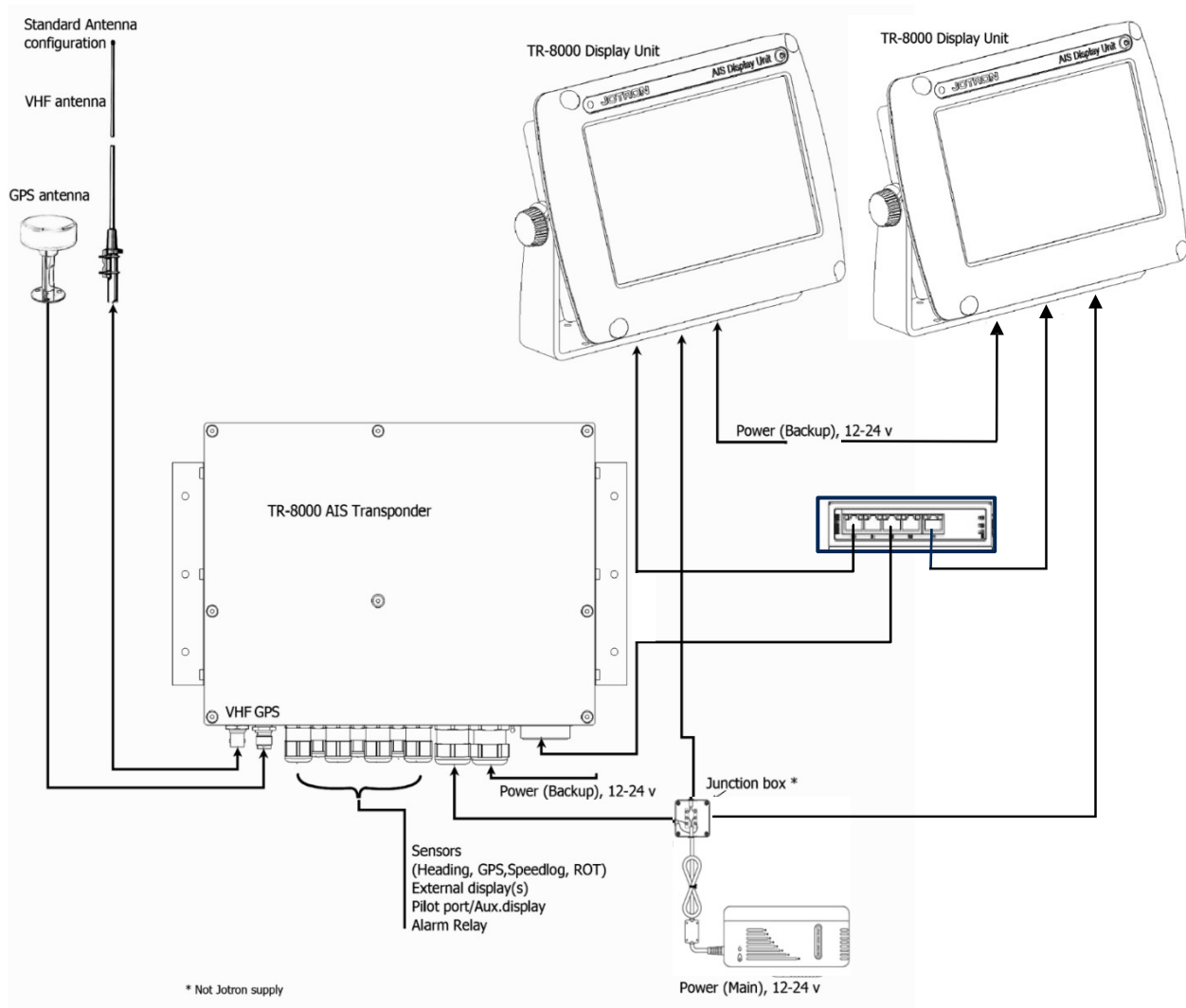
(Configuration) → Advanced → System



| Transponder unit | Display unit | By     | Date       | Change                                                   |
|------------------|--------------|--------|------------|----------------------------------------------------------|
| 01.02.xx         | 01.02.xx     | Jotron | 02.07.2021 | IEC-61992-2 ed 3<br>IEC 62923-1:2018<br>IEC 62923-2:2018 |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |
|                  |              |        |            |                                                          |

### 3 Block diagram

A typical connection of Dual Display set-up.



## 4 Quick guide

References below are to the main manual: “Tron AIS TR-8000 MkII - Operation and installation manual”.

1. Connect:
  - Antennas (Ch. 7.1.3)
  - Display cable between Display and Transponder (Ch. 7.3)
  - Power to both units (Ch. 7.3, 7.3.2 & 7.3.3.2)
  - Sensors (Ch. 7.3.2.4)
  - External display (Ch. 7.3.2.5)
  - Pilot Port [Option] (Ch. 7.3.2.6, 7.3.3.3 & 9.6.1.4)
  - Alarm (Ch. 7.3.2.7)
2. Fill in Own Ship information (Ch. 9.1)
  - Ship Name
  - IMO number
  - MMSI –“-
  - Call Sign
  - GPS antenna positions (internal & external)
  - Type of Vessel
3. Check GPS and position
  - Internal GPS signal strength (Ch. 9.6.4)
  - Transmitted data (Ch. 9.6.8)
4. Configure External Display Interface (Ch. 9.6.1.2)
  - RS422 (always enabled)
  - Ethernet
5. Configure Pilot port interface [option] (Ch. 9.6.1.4)
  - Display or Transponder
6. Check External Sensor communication
  - Indicators (Ch. 9.5) - shows detected sensors
  - Port Monitor (Ch. 9.6.1.8) – shows RAW data from Sensor 1 to Sensor 3
7. Check External Display communication (Ch. 7.3.2.5)
8. Check Communication test (Ch. 9.6.2 & 9.6.6)
9. Fill in Voyage Settings (Ch. 6.3)
  - Navigational status
  - Destination
  - ETA
  - Draught
  - Cargo Category
10. Check reception of ship in ship list – normal operation (Ch. 6.2.6)

## 5 Optional accessories

For an overview of the available optional accessories for this product, refer to [jotron.com](https://jotron.com).

## 6 Spare parts

For an overview of the available spare parts for this product, refer to [jotron.com](https://jotron.com).

### 6.1 Counterfeit spare parts

Ensure that all spare parts being fitted to this product are only original spare parts manufactured or approved by Jotron.

Any use counterfeit parts will invalidate the product type-approval certificate.

## 7 Recycling and disposal

This product should not be disposed as normal waste and must be handled in accordance with the applicable federal, state and local waste disposal regulations in the country where the equipment is used.

## 8 Warranty

All Jotron products are warranted against factory defects in materials and/or workmanship during the warranty period.

Refer to the sales terms and conditions for specific warranty information regarding this product.

## 9 Service

All services such as testing, installation, programming, replacement, marking, and battery exchange are provided by an authorized Jotron service agent.

Improper service or maintenance may destroy the functionality and/or performance of this product.

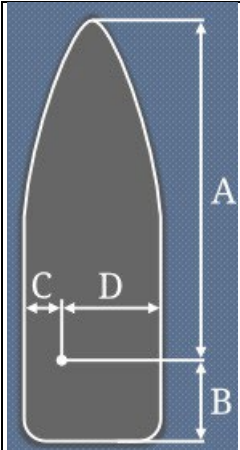
Jotron does not accept any responsibility for the dismantling or reassembling of any Jotron product that occurs externally from a Jotron authorized facility and/or is handled by someone other than an authorized, trained, and certified person.

### 9.1 Service agents

Refer to [jotron.com](https://jotron.com) for an overview of Jotron partners and distributors. <https://jotron.com/partners-and-distributors/>

## 10 Tron AIS TR-8000 Mk II installation – registration form

|                                  |      |                          |         |
|----------------------------------|------|--------------------------|---------|
| Vessel name                      |      | IMO Number               |         |
| Flag State                       |      | MMSI Number              |         |
| Owner / Company                  |      | Radio Call Sign          |         |
| On-Board Contact Name            |      | Telephone Number(s)      | Office: |
|                                  |      |                          | GSM:    |
| Superintendents Name             |      | Telephone Number(s)      | Office: |
|                                  |      |                          | GSM:    |
| Type of Vessel                   |      | Gross Registered Tonnage | GWT     |
| L.O.A.                           | mtrs | Beam                     | mtrs    |
| Comments:                        |      |                          |         |
| Transponder unit, serial number: |      |                          |         |
| Display unit, serial number:     |      |                          |         |

|                                                                                     |                                |                                                    |                                                       |
|-------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|-------------------------------------------------------|
|  | Antenna Location               | GNSS Antenna connected to External Position Source | GNSS Antenna connected directly to TR-8000 (Internal) |
|                                                                                     | A = Distance to Bow            | mtrs                                               | mtrs                                                  |
|                                                                                     | B = Distance to Stern          | mtrs                                               | mtrs                                                  |
|                                                                                     | C = Distance to Port Side      | mtrs                                               | mtrs                                                  |
|                                                                                     | D = Distance to Starboard side | mtrs                                               | mtrs                                                  |

Installation completed and successfully commissioned by:

|                            |      |           |
|----------------------------|------|-----------|
| Technician, (type name)    |      |           |
| Service provider / company |      |           |
|                            |      |           |
| Place                      | Date | Signature |

*Please fill in with capital letters*

This form must be sent to Jotron AS, [support@jotron.com](mailto:support@jotron.com) or Fax.: + 47 33 12 67 80 (Att: Service department), in order to have a valid 24 months product warranty.

**NORWAY/HEADQUARTER**

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Ringdalskogen 8  
3270 Larvik, Norway  
Tel: +47 33 13 97 00

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