

# USER MANUAL



Tron TR30 AIR





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# 1 GENERAL

Jotron manufactures safety equipment designed for the search and rescue of human life and property. For safety equipment to be effective according to the design parameters it is important that all products are handled, maintained, serviced and stowed in compliance with this manual.

All information contained within this manual has been verified and is to our knowledge correct, however, Jotron reserves the right to make changes to any product(s) or module(s) described herein to improve reliability, function or design, without further notice.

The following three symbols are in use throughout this manual:

**NOTE:** This symbol is used to highlight information.

**IMPORTANT:** This symbol is used to draw attention to important details.

**WARNING:** This symbol is used to highlight information that if not followed can result in personal injury or body harm.

Jotron is not liable for consequential or special damages and cannot be held responsible for any damages or injury arising either directly or indirectly due to an error or omission of information, misuse of a product, breach of procedures, or for failure of any specific component or other part of the equipment.



## **2 IMPORTANT INFORMATION**

Below are instructions for keeping the radio log and the radio operator's obligation according to national and international regulation:

1. The radio log shall be kept in accordance with requirements in the Radio Regulation, SOLAS Convention, national regulations regarding radio installations and the STCW Convention (STCW 95 including the STCW Code) including relevant regulation regarding watch keeping on board passenger and cargo ships.
2. Unauthorized transmissions and incidents harmful interference should, if possible, be identified, recorded in the radio log and brought to the attention of the Administration in compliance with the Radio Regulations, together with an appropriate extract from the radio log (STCW Code BVIII/2 No. 32).

### 3 PRODUCT DESCRIPTION

The Tron TR30 AIR is a ruggedly designed radio made for easy operation. It is a portable emergency VHF radio for two-way communication between vessel and aircraft. The radio is possible to operate using one hand, even when wearing gloves. The high contrast graphical display including integrated back lighting of the display and keys are very effective for visibility and usage in low light conditions.

It is also resistant to oil, seawater and sunlight. This radio is compact in size with smooth edges to avoid damage to clothing or a raft.

The Tron TR30 AIR radio is waterproof down to 1 meter and floats in freshwater, battery included. The radio is designed with a self-draining loudspeaker. The Tron TR30 AIR is only waterproof when the antenna and jack cover are assembled on the radio correctly.

The Tron TR30 AIR package includes the following components:

- Tron TR30 AIR radio
- TR30 Emergency battery (orange)
- TR30 Test battery (black)
- RH-30 Holder
- Antenna
- Belt clip
- Wrist strap
- User Manual

Part number: 101700 Tron TR30 AIR

## 4 PRODUCT IMAGES



Figure 1: Tron TR30 AIR



Figure 2: Tron TR30 AIR in RH-30 Holder



## 5 FUNCTIONAL DESCRIPTION

### 5.1 Tron TR30 AIR components

An overview of the radio components:



1. Antenna TR30 AIR
2. Volume, squelch and monitor control
3. Loudspeaker
4. Up button
5. Down button
6. Backlight button
7. Emergency mode indicator
8. Frequency indicator
9. Microphone
10. Squelch and signal strength indicator
11. Transmitter power indicator (only visible when transmitting)
12. Battery status indicator
13. Volume control indicator
14. Key lock/unlock button
15. Enter button
16. 121.5 button (instant access)
17. PTT transmit button
18. On/off button
19. Jack cover (external accessories connector)

**Figure 3: Tron TR30 AIR components**

## 5.2 Antenna

The antenna for the Tron TR30 AIR is fitted with a standard SMA connector. The antenna shall be marked with “JOTRON TR30 AIR”. Make sure to use only original and approved Jotron antenna.

### IMPORTANT:

Be sure to use correct antenna type. Antenna for Tron TR30 AIR, shall be marked with **JOTRON TR30 AIR** on the sides.



The Tron TR30 AIR unit is not waterproof when the standard antenna is not attached or if the antenna is not assembled correctly.

## 5.3 Emergency battery

The Emergency battery (orange) is a Lithium metal battery. This battery is specially designed for use in distress situation and cannot be recharged. Keep the Emergency battery in the RH-30 Holder, then it is easily accessible in a distress situation.

Always bring a sealed Emergency battery with the radio when boarding a lifeboat or raft.

See chapter 11 for Battery Safety Instruction.



Figure 4: Emergency battery

**IMPORTANT:** The emergency battery is a single use item. You must replace the battery before the battery expiry date and/or if the protective seal on the battery is broken.

New Emergency batteries can be ordered from your local Jotron dealer or from [sales@jotron.com](mailto:sales@jotron.com) (Order No: 101035 Spare TR30 Emergency Battery).

## 5.4 Test battery

Test battery shall be used for test and training.

Ensure you check the batteries for damage prior to use.

See chapter 11 for Battery Safety Instruction.

New Test battery can be ordered from your local Jotron dealer or from [sales@jotron.com](mailto:sales@jotron.com) (Order No: 101710 Spare TR30 Test Battery).



Figure 5: TR30 Test battery

## 5.5 Battery endurance

The standby and operation times of the batteries is listed below:

| Battery                | Standby hours at -20°C | Multi-usage at -20°C <sup>1</sup> |
|------------------------|------------------------|-----------------------------------|
| TR30 Emergency battery | 60 hours               | >20 hours                         |
| TR30 Test battery      | 60 hours               | >20 hours                         |

## 5.6 RH-30 Holder

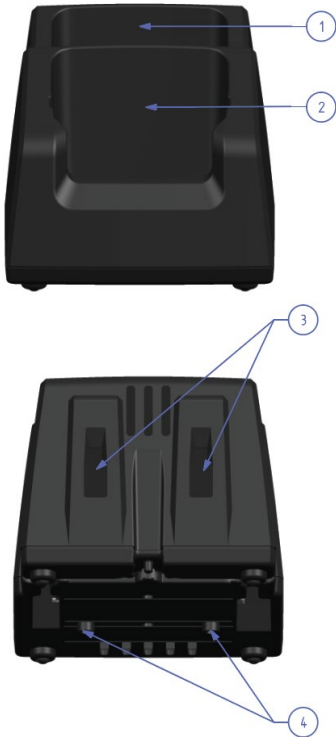
The RH-30 Holder is without any electronics or any charging possibility. The holder has possibilities to store one radio with or without a mounted Test battery, and an Emergency battery.

Jotron recommend that the Test battery is always mounted on the radio when not in use and stored in the RH-30 Holder. This will not drain the battery when the radio is turned OFF

The RH-30 Holder can both be mounted on a horizontal or a vertical surface.

<sup>1</sup> Emergency battery lifetime hours have been tested in accordance with 10:10:80 ratio (Send:Listen:Standby).

An overview of the RH-30 Holder components:



*Figure 6: RH-30 Holder components*

1. Battery storage bay
2. Radio storage bay
3. Holes for vertical mounting (36mm spacing)
4. Holes for horizontal mounting (43mm spacing)



*Figure 7: Tron TR30 AIR radio and Emergency battery in Holder*

## 6 INSTALLATION

Upon receipt of the radio, do the following:

1. Mount the RH-30 Holder. It can be mounted either on a horizontal or vertical surface, using the respectively holes, see chapter 5.6. The RH-30 Holder should be mounted in a place where it can always be easily accessible.
2. Connect the antenna to the radio. When assembling the antenna to the radio, ensure you hold it at the base while turning it clockwise. When the antenna starts to resist turning, turn it another  $\frac{1}{4}$  turn.
3. Mount the Test battery on the radio.
4. Place emergency battery in the battery storage bay in the RH-30 Holder and the radio in the radio bay.

**IMPORTANT:** The emergency battery should only be installed on the radio in a Distress situation.



*Figure 8: Tron TR30 Air in Holder*

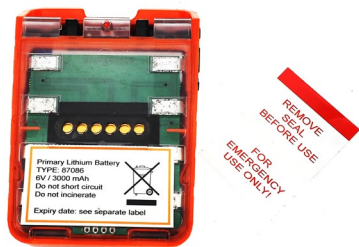
## 7 EMERGENCY USE

To install the emergency battery on the Tron TR30 AIR, do the following:

1. Pull back and remove the emergency seal sticker on the battery.



**NOTE:** Rip the sticker off at the perforated edge.



2. Using the fixing track, mount the Emergency battery onto the back of the radio. Ensure you enter the bottom edge of the battery into the bottom edge of the radio. Do not force the battery



3. Squeeze in the black finger grips on either side of the battery to lock the battery into place



4. Turn on radio



5. Push PTT to transmit.



## 8 OPERATION INSTRUCTIONS

The TR30 AIR shall only be used with Emergency battery or Test battery. The Emergency battery is for use in a distress situation. In case of a test or training, use a Test battery.

If the jack cover is removed, for example when using an accessory, the radio is no longer waterproof.

The antenna, battery and jack cover must be correctly assembled on the radio in order to be waterproof.

### 8.1 Turning on the radio

Press and hold the **On/off button** for approximately 3 seconds to turn the radio on.



The radio loads the following settings:

Frequency 121.5MHz

High volume

Low squelch



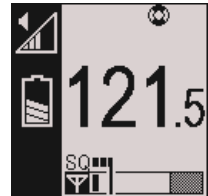
### 8.2 Channel selection

Press the **Up-** or **Down arrow buttons** to change the frequency.



### 8.3 Channel 121.5MHz button

Press the **121.5 button** to jump directly to 121.5MHz emergency frequency.





## 8.4 Volume adjustment

Turn the **volume control** clockwise to increase and anti-clockwise to reduce the volume.

The volume symbol in the display indicates the volume level.

Ensure that you do not press down the volume control while adjusting the volume.



## 8.5 Squelch adjustment

Press and turn the **squelch control** anti-clockwise to increase receiver sensitivity.

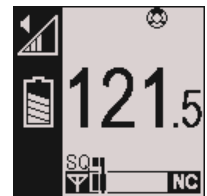
The squelch bar appears on the screen display indicating the current active sensitivity level. When adjusted fully to the left, the squelch is completely open. Adjusting to the right lowers the receiver sensitivity.



The signal strength of the current channel appears on the bar below the squelch bar. If the received signal is strong enough, the squelch opens and voice is received. This is indicated by the Rx symbol.

When the squelch control is pressed twice, it opens the squelch immediately. Press twice again to recall the previous squelch setting.

When the receiver signal is too distorted (by radio noise) to be readable, the loudspeaker or speaker mic is automatically muted. This is indicated by the Noise Cancel (NC) symbol that appears in the display



## 8.6 Key lock and unlock

Press and hold the **Key lock/unlock button** for 2 seconds to lock or unlock the buttons on the front

A key symbol appears when the radio is locked

PTT, Instant access 121.5MHz, volume and squelch are still available when the radio is locked.



## 8.7 Menus

Press the **Up-** and **Down arrow buttons** at the same time to enter or exit the menu system. Use the up/down arrow buttons to navigate and select using Enter button.

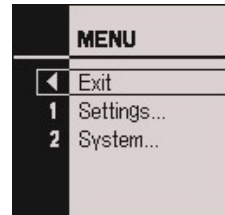


### Exit:

Use this menu option to exit the menu system.

Display screen:

Menu number:



### Settings:

Use this menu option to adjust the following settings:

Key sound

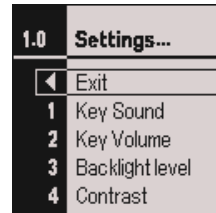
Key volume

Backlight level

Contrast

Menu number:

1

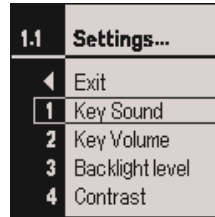


## Key sound:

Use this menu option to choose an audio tone.

You can choose between four different tones.

Using the up/down arrow keys, select from 1-4.



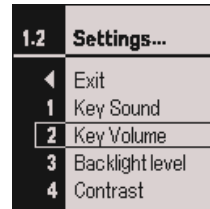
Menu number:

1.1

## Key volume:

Use this menu option to set the volume of the key sound.

(Off=0, low to high=1-6)



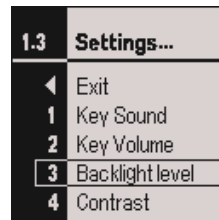
Menu number:

1.2

## Backlight level:

Use this menu option to set the display backlight level.

(Off=0, low=1 or high=2)



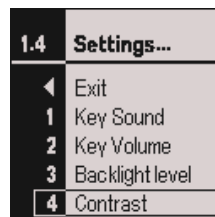
Menu number:

1.3

## Contrast:

Use this menu option to set the display contrast level

(Low=1, medium= 2 or high=3)



Menu number:

1.4

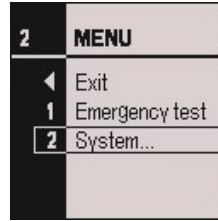
**System:**

Use this menu option to access the following information:

Serial Number

SW version

HW version

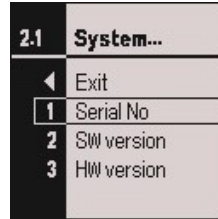


Menu number:

2

**Serial Number:**

Use this menu option to find the serial number of the radio

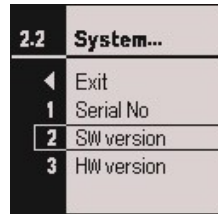


Menu number:

2.1

**SW Version:**

Use this menu option to find the software version of this radio.

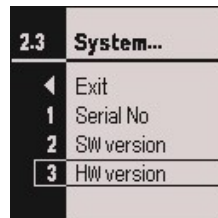


Menu number:

2.2

**HW Version:**

Use this menu option to find the hardware version of this radio.



Menu number:

2.3

## 9 MAINTENANCE

If the radio is immersed in seawater, rinse it with fresh water immediately.

Wash away dirt and oil from the radio with warm water (no higher than 45 degrees Celsius) and mild dish soap. Finish by rinsing with fresh water and drying.

**IMPORTANT:** This radio must never be disassembled. Unauthorized disassembly will void your warranty.

### 9.1 Regular inspection

The lifetime of any equipment depends on how well you take care of it. The Tron TR30 AIR is constructed to endure in a rough maritime environment. Regular inspection is important to detect error symptoms and prevent potentially serious problems.

To inspect, do the following:

1. Inspect the battery connection pins and the lock/release mechanism of the battery.
2. Inspect the housing for defects. This is important as defects can affect water sealing.
3. Ensure that the antenna and jack cover are assembled correctly, to keep the radio waterproof.

## 9.2 Regular testing

It is important to perform regular testing to ensure proper operation. This ensures that the radio is in good working order and ready for use in a potential distress situation.

**IMPORTANT:** Ensure you have a Test battery available for use during testing. The Emergency battery should only be used in distress situations. Testing should occur according to the requirements indicated in the on-board radio log.

To test, do the following:

1. Use the Test battery.
2. Turn the radio on and choose 123.1MHz. If you use test equipment connected through the antenna connector, you may use 121.5MHZ.
3. Verify by sending and receiving a transmission. Use another radio, or your test equipment.
4. Turn off the radio. Remount the antenna (if it was removed during test).
5. Verify that the Emergency battery is still valid. The expiry date is located on the top of the battery.
6. Verify that the Emergency battery is still sealed. If the seal is broken, replace the battery immediately.







## 11 BATTERY SAFETY INSTRUCTION

|                        |   |
|------------------------|---|
| Product name:          | TR30 Emergency battery/TR30 Test battery      |
| Type:                  | Non-rechargeable Lithium metal                |
| Lithium metal content: | Below 1g per cell                             |
| Approximate weight:    | 100 grams                                     |
| Chemical system:       | Lithium/Iron Disulfide (Li/FeS <sub>2</sub> ) |
| Designed for recharge: | No  |

**IMPORTANT:** The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

### 11.1 Hazard identification

The Lithium metal batteries used in this product are sealed units which are not hazardous when used according to the recommendations of the manufacturer. Under normal conditions of use, the batteries are hermetically sealed.

**WARNING:** Do not short circuit, charge, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product, otherwise you risk fire or explosion.

|               |   |
|---------------|---|
| Ingestion:    | Swallowing a battery can be harmful.                          |
| Inhalation:   | Contents of an open battery can cause respiratory irritation. |
| Skin Contact: | Contents of an open battery can cause skin irritation.        |
| Eye Contact:  | Contents of an open battery can cause severe irritation.      |

### 11.2 First aid measures

|               |   |
|---------------|---|
| Ingestion:    | Do not induce vomiting or give food or drink. Seek medical attention immediately.<br><br>Provide fresh air and seek medical attention.<br>Remove contaminated clothing and wash skin with soap and water. |
| Inhalation:   | If irritation occurs seek medical attention.  |
| Skin Contact: | Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.                                    |
| Eye Contact:  |   |



## 11.3 Fire fighting measures

In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out.

Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries.

Emergency Responders should wear self-contained breathing apparatus. Burning lithium-iron disulfide batteries produce toxic and corrosive lithium hydroxide fumes and sulfur dioxide gas.

## 11.4 Handling and storage

The Tron TR30 AIR battery should be stored in a cool and well ventilated area. Elevated temperatures can result in a reduction of battery life. In locations that handle large quantities of lithium batteries, such as a warehouse, lithium batteries should be isolated from unnecessary combustibles.

Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, generate significant heat and can cause the safety release vent to open. Damaging a lithium battery may result in an internal short circuit. The contents of an open battery, including a vented battery, when exposed to water, may result in a fire and/or explosion. Crushed or damaged batteries may result in a fire.

**WARNING: Battery can explode or leak and cause burns if disassembled, charged, or exposed to water, fire or high temperature.**

## 11.5 Transportation

Detailed support documentation regarding transportation regulations for batteries in accordance with ICAO/IATA, under Product Safety Information (PSI) and/or statement in accordance with UN test 38.3



## **12 ACCESSORIES AND SPARE PARTS**

### **12.1 Optional accessories**

For an overview of the available optional accessories for the Tron TR30 AIR, please refer to our website.

### **12.2 Spare parts**

For an overview of the available spare parts for the Tron TR30 AIR, please refer to our website.

### **12.3 Counterfeit spare parts**

Jotron is aware of extended counterfeit spare parts being marketed and sold to fit GMDSS safety products. It is of extreme importance that any spare parts being fitted to this product are original spare parts, manufactured or approved by Jotron. Any use of counterfeit spare parts will invalidate the product type-approval certificates and warranty will not apply. Radio surveyor will also not approve and sign annual performance tests for radios with counterfeit spare parts.



## **13 RECYCLING AND DISPOSAL**

Tron TR30 AIR is not to 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.



## 14 WARRANTY

The warranty period for a new Tron TR30 AIR is 24 months from the date of delivery (from Jotron). If you have a product and are unclear about your warranty period contact your sales partner.

All Jotron products are warranted against factory defects in materials and/or workmanship during the warranty period, unless otherwise stated in writing. Please refer to the terms and conditions of your sales agreement for additional information. During this warranty period Jotron will repair or when necessary replace the product.

**NOTE:** Any use of counterfeit spare parts will invalidate the product type-approval certificates and warranty will not apply. Radio surveyor will also not approve and sign annual performance tests for radios with counterfeit spare parts.





## 15 STANDARDS

Jotron declares that this radio is in compliance with Radio Equipment Directive 2014/53/EU. A copy of the declaration of conformity can be downloaded from the Jotron website.

The Tron TR30 AIR has been verified, tested and meets the following product standards:

|   |   |
|---|---|
| EN/IEC 60945: 2002 including Corr.1 (Category - Portable) | Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results.  |
| ETSI EN 301 688 V1.2.1                                    | Technical characteristics and methods of measurement for fixed and portable VHF equipment operating on 121,5 MHz and 123,1 MHz.   |
| ETSI EN 301 489-22  | Electromagnetic compatibility and Radio spectrum Matters (ERM);<br>Electromagnetic Compatibility (EMC) standard for radio equipment and services;<br>Part 22: Specific conditions for ground based VHF aeronautical mobile and fixed radio equipment. |
| 47 CFR 2: Mar. 2019                                       | Electronic Code of Federal Regulations, Title 47, Telecommunications.   |
| 47 CFR 80 to End: Mar. 2019                               | Electronic Code of Federal Regulations, Title 47, Telecommunications.   |
| 47 CFR 2. 87  | Aviation Services   |
| 47 CFR 2. 1093  | Radiofrequency radiation exposure evaluation: portable devices.<br>Part 2 - Frequency allocations and radio treaty matters; general rules and regulations   |
| IEC 60529:1989  | Degrees of protection provided by enclosures (IP Code).   |
| IEC 62368-1:2018  | Audio/video, information and communication technology equipment - Part 1: Safety requirements.  |
| IEEE 1528 (2013)  | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.  |

|                                    |  |
|------------------------------------|--|
| ANSI/IEEE Std. C95.1 (1999)        | Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz  |
| EN 50566:2017                      | Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted...  |
| EN/IEC 62209-1:2016                | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz).  |
| EN/IEC 62209-2 Ed.1(2010)          | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz). |
| RSS-102 Issue 5 Safety Code (2015) | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)   |

This device complies part 80 of the FCC Rules.

The Tron TR30 AIR has been shown to be compliant for localized Specific Absorption Rate (SAR) for uncontrolled environment/general population limits specified in ANSI/IEEE Std. C95.1-1999.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This class 2 CE approved product is available for sale and purchase in the following countries: Brazil, Canada, China, Europe, Korea, Russia and the United States of America.

The relevant CE marking of CE0470 is found on the product and the packaging.

**IMPORTANT:** Regulations for VHF radios varies from country to country. Prior to using this equipment check the national requirements for VHF radio operators and ensure that the radio conforms to all local regulations.

## 16 ABBREVIATIONS

|                    |   |
|--------------------|---|
| ADR                | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AM                 | Amplitude Modulation  |
| ANSI               | American National Standards Institute   |
| CE                 | European Commission   |
| CFR                | The Code of Federal Regulations   |
| DC                 | Direct Current  |
| EMC                | ElectroMagnetic Compatibility   |
| EN                 | European Standards  |
| ERM                | Electromagnetic compatibility and Radio spectrum Matters                            |
| ETS                | European Telecommunications Standard  |
| ETSI               | European Telecommunications Standards Institute                                     |
| FCC                | Federal Communications Commission   |
| GHz                | Giga Hertz  |
| GMDSS              | Global Maritime Distress and Safety System  |
| HW                 | Hardware  |
| IATA               | International Air Transport Association   |
| ICAO               | International Civil Aviation Organization   |
| IEC                | International Electrotechnical Commission   |
| IEEE               | Institute of Electrical and Electronics Engineers                                   |
| IMDG               | International Maritime Dangerous Goods Code   |
| IP Code            | International Protection Marking, IEC standard 60529                                |
| kHz                | Kilo Hertz  |
| LiFeS <sub>2</sub> | Lithium Iron Disulfide  |
| MHz                | Mega Hertz  |
| PEP                | Peak Envelope Power   |
| PTT                | Push To Talk  |
| RF                 | Radio Frequency   |
| RID                | Transportation of dangerous goods by train  |
| SAR                | Specific Absorption Rate  |
| SDS                | Safety Data Sheet   |
| SINAD              | Signal-to-Noise And Distortion ratio  |
| SMA                | Sub Miniature version A connector   |
| SOLAS              | Safety Of Life At Sea (an international maritime safety treaty)                     |
| STCW               | Standards of Training, Certification and Watch keeping for seafarers                |
| SW                 | SoftWare  |
| UN                 | United Nations  |
| VHF                | Very High Frequency   |



## 17 TECHNICAL SPECIFICATIONS

### 17.1 Product specification

| Parameters                   | TR30 AIR Specification                                  |
|------------------------------|---|
| Operating temperature range: | -20°C to +55°C (-4°F to +131°F)                         |
| Size (WxHxD):                | 61 mm x 157 mm x 40 mm<br>(Depth with belt clip: 47 mm) |
| Full buoyancy:               | Yes   |
| Weight:                      | Approximately 300 g (incl. battery)                     |
| IP Code                      | IP 67   |

#### Receiver:

|                                |   |
|--------------------------------|---|
| Frequency, 2 channels:         | 121.5 MHz, 123.1 MHz                        |
| Modulation:                    | AM  |
| Channel spacing:               | 25 kHz                                      |
| Maximum usable sensitivity:    | < 2 $\mu$ V for 12dB SINAD (Typ. 1 $\mu$ V) |
| Adjacent channel rejection:    | > 70 dB                                     |
| Spurious response:             | > 70 dB                                     |
| Harmonic distortion:           | < 5% (Typ. 2%)                              |
| Internal speaker output power: | >200 mW (Typ. 350 mW)                       |
| Speaker mic output power       | 15 mW (8 $\Omega$ )                         |

#### Transmitter:

|                           |                      |
|---------------------------|----------------------|
| Frequency, 2 channels:    | 121.5 MHz, 123.1 MHz |
| Channel spacing:          | 25 kHz               |
| Transmitter output power: | 0.25 W (DC), PEP<1 W |
| Modulation AM:            | >70%                 |
| Harmonics and spurious:   | < 0.25 $\mu$ W       |
| Frequency error:          | < +/-500 Hz          |



## 18 AMENDMENT RECORDS

| Vers | Date        | Reason                    | By |
|------|-------------|---------------------------|----|
| A    | 09.Mai.2019 | First revision of manual. | ØB |
|      |             |                           |    |
|      |             |                           |    |
|      |             |                           |    |

# 19 EMERGENCY INSTRUCTIONS

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## TRON TR30 AIR

1

Take emergency battery out of the holder

Take emergency battery out of the holder

2

Remove safety seal

Remove safety seal

3

Insert emergency battery

Insert emergency battery

|   |          |
|---|----------|
| A | Alfa     |
| B | Bravo    |
| C | Charlie  |
| D | Delta    |
| E | Echo     |
| F | Foxtrot  |
| G | Golf     |
| H | Hotel    |
| I | India    |
| J | Juliett  |
| K | Kilo     |
| L | Lima     |
| M | Mike     |
| N | November |
| O | Oscar    |
| P | Papa     |
| Q | Quebec   |
| R | Romeo    |
| S | Sierra   |
| T | Tango    |
| U | Uniform  |
| V | Victor   |
| W | Whiskey  |
| X | X-ray    |
| Y | Yankey   |
| Z | Zulu     |

|  |               |                         |             |                         |            |
|--|---------------|-------------------------|-------------|-------------------------|------------|
| <p style="text-align: center; font-size: 2em; font-weight: bold;">F</p> <p style="text-align: center;">Functions</p> | <p>On/off</p> | <p>Channel 121.5MHz</p> | <p>Turn</p> | <p>Turn while press</p> | <p>PTT</p> |
|--|---------------|-------------------------|-------------|-------------------------|------------|

P

Emergency procedure

Select channel 121.5MHz  
Push To Talk (PTT):

Emergency message with useful information for example:  
Position, nature of distress and nature of assistance required.

Own ship name: ..... Call sign: ..... MMSI: .....



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