



## „easyCPA<sup>3</sup>-Alarm“ Manual

easyCPA<sup>3</sup>-Alarm  
external signal source for  
easyTRX2 or TRX2-IS transceiver  
Product No.: A056  
Revision 1.1

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## PLEASE READ THIS FIRST!

### WEATHERDOCK GENERAL WARNINGS

All marine Automatic Identification System (AIS) units utilize a satellite based system such as the Global Positioning Satellite (GPS) network or the Global Navigation Satellite System (GLONASS) network to determine position. The accuracy of these networks is variable and is affected by factors such as the antenna positioning, how many satellites are used to determine a position and how long satellite information has been received for. Therefore, it is desirable wherever possible to verify both your vessels AIS derived position data and other vessels AIS derived position data with visual or radar based observations. The easyTRX2 software is intended for use as an installation and configuration tool. The application is not a navigation tool and should not be used as such.

### LICENSING

**IMPORTANT:** In most countries the operation of an AIS unit is included under the vessels marine VHF license provisions. The vessel on to which the AIS unit is to installed must therefore possess a current VHF radiotelephone license which lists the AIS system and the vessel Call Sign and MMSI number. Please contact the relevant authority in your country for more information. In accordance with a policy of continual development and product improvement the easyTRX2 hardware and software may be upgraded from time to time and future versions of the easyTRX2 may therefore not correspond exactly with this manual. When necessary upgrades to the product will be accompanied by updates or addenda to this manual. Please take time to read this manual carefully and to understand its contents fully so that you can install and operate your AIS system correctly. Information contained in this manual is liable to change without notice. Weatherdock AG, disclaims any liability for consequences arising from omissions or inaccuracies in this manual and any other documentation provided with this product.

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### **WARNINGS AND PRECAUTIONS**

IF YOU CHOOSE TO USE THE CPA<sup>3</sup>-ALARM, THE EASYTRX<sub>2</sub> OR THE EASYSPLIT OR BOTH IN YOUR BOAT; IT IS THE SOLE RESPONSIBILITY OF THE OWNER/OPERATOR OF THE EASYCPA<sup>3</sup>-ALARM; THE EASYTRX<sub>2</sub> (AND OR THE EASYSPLIT) TO SECURE THE BOAT SO THAT IT WILL NOT CAUSE ANY DAMAGE OR PERSONAL INJURY IN THE EVENT OF AN ACCIDENT.

### **SOME VESSELS DO NOT CARRY AIS.**

**IT IS IMPORTANT AT ALL TIME TO KEEP A PROPER LOOKOUT. NEITHER THE "easyCPA<sup>3</sup>-Alarm", the "easyTRX<sub>2</sub>" NOR (AND OR) "easySPLIT" ARE NOT A SUBSTITUTE FOR GOOD SEAMANSHIP.**

This software uses components and source code developed by other companies or groups.

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## **Manual revision status**

Revision 1.0, author Knipp, revision 19<sup>th</sup> January 2011 basis

## **Congratulations!**

Thank you for purchasing a unit from the Weatherdock AG. This testifies your high technical competence, because you purchased the best available product on the market. Thank you.

## **PREREQUISITES**

The easyTRX2 programming application is designed to operate with Microsoft Windows® 2000 (SP 3), XP (SP 2) and above. Recommended minimum system requirements are:

- Microsoft Windows® 2000 SP3 or Microsoft Windows® XP SP2
- Display resolution of at least 1024 x 768
- One USB port
- A pointing device (mouse or equivalent)

Due to "Time – Synchronization" they use the same organization of free and allocated windows (Slots) in the shared VHF Data Link (this method is called "Carrier Sense Time Division Multiple Access") to send and receive messages. Without the necessity of any operating interaction, both vessels know exactly who or what is cruising nearby and where the individual object is heading.

## 1. SCOPE OF DELIVERY

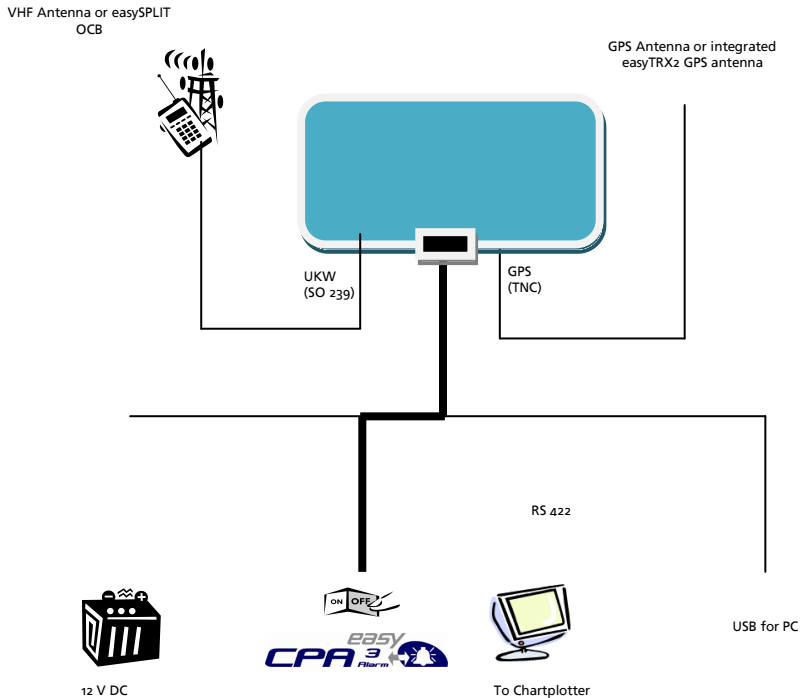
Each box contains:

- The easyCPA<sup>3</sup>-Alarm
- One brown and one white cable to connect the device with the easyTRX2 or the TRX2-IS (preinstalled)
- This manual





## 2. MOUNTING AND INSTALLATION

### 2.1. Mechanical and electrical installation - recommendations



Wiring of the easyTRX2 and easyTRX-IS

Pos	Cable group	Quantity of cables	Final wire colour	Functionality	Pin at Sub D 15
1	NMEA	6	green	NMEA out 38400, (-)	9
2	NMEA		white	NMEA out 38400, (+)	1
3	NMEA		pink-coloured	NMEA in 38400, (-)	10
4	NMEA		grey	NMEA in 38400, (+)	2
5	NMEA		Brown	NMEA in 4800, (-)	11
6	NMEA		Yellow	NMEA in 4800, (+)	3
7	External switches	4	green	SRM switch (-)	13
8	External switches		white	SRM switch (+)	5
9	External switches		brown	Silent switch (-)	12
10	External switches		yellow	Silent switch (+)	4
11	CPA 	2	brown	CPA Alarm (-)	14
12	CPA 		white	CPA Alarm (+)	6
13	Power	2	black	Power 9.6-31.2 VDC (-)	./.
14	Power		red	Power 9.6-31.2 VDC (+)	./.

**CPA:**

1. Connect the brown cable of the two-pole cable with the brown cable of the easyTRX which is marked with "CPA".
2. Connect the white cable of the two-pole cable with the white cable of the easyTRX which is marked with "CPA".

**Silent switch:**

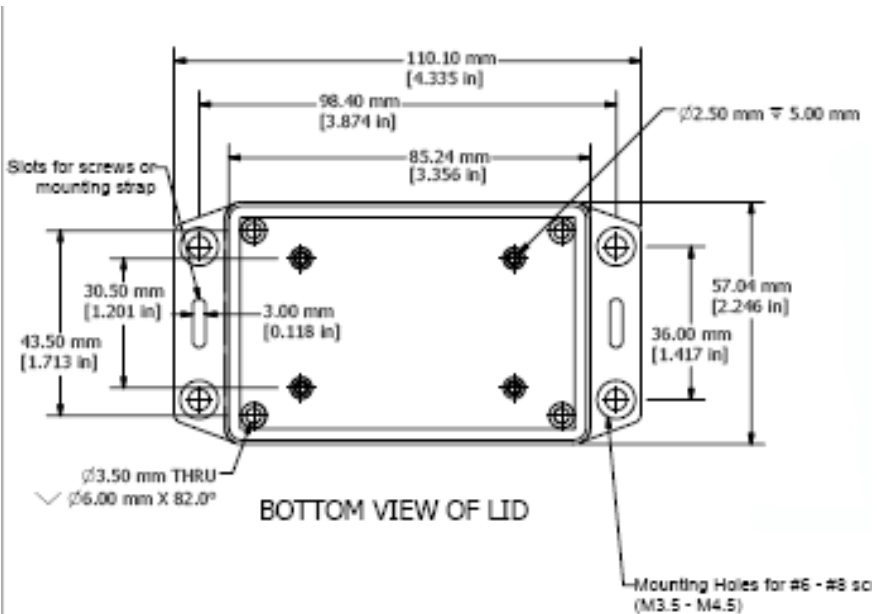
1. Connect the brown cable of the four pole cable with the brown cable of the easyTRX which is marked with "Switches".
2. Connect the yellow cable of the four pole cable with the yellow cable of the easyTRX which is marked with "Switches".

**PAN-PAN switch:**

1. Connect the green cable of the four pole cable with the green cable of the easyTRX which is marked with "Switches"
2. Connect the white cable of the four pole cable with the white cable of the easyTRX which is marked with "Switches"

### 2.1.1. Mounting

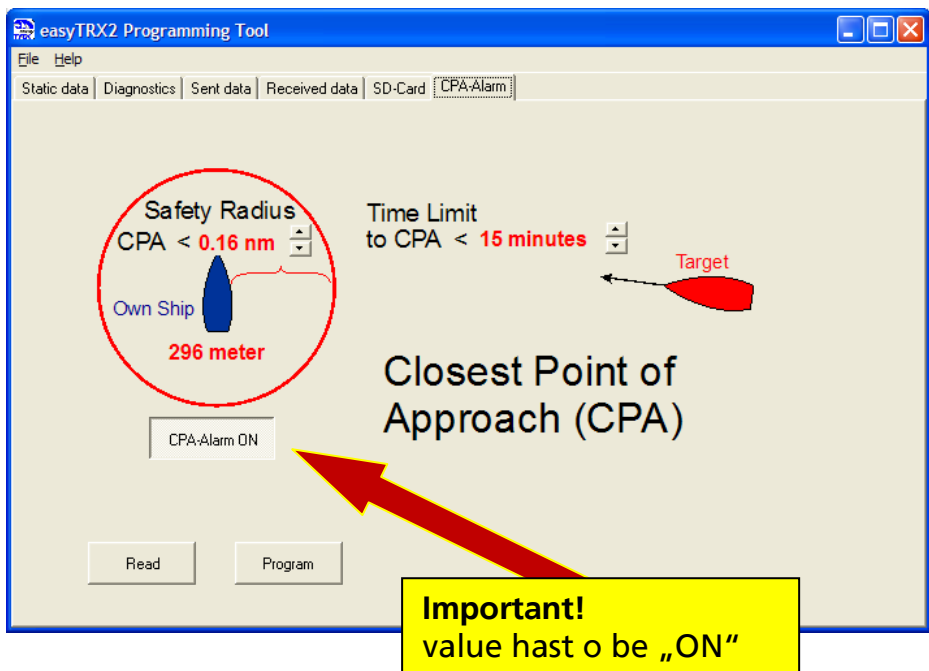
Please make sure that the easyCPA<sup>3</sup>-Alarm is protected from direct solar radiation and against water.



### 3. STARTING UP

After you have connected the easyCPA<sup>3</sup>-Alarm with the easyTRX2 or easyTRX2-IS as explained before you can continue with the fine tuning.

To do this, start the easyTRX2 or the easy TRX2-IS software. The individual CPA-value has to be filled in, where the specific data of you vessel is deposited.



The screenshot shows the 'easyTRX2 Programming Tool' window. The 'CPA-Alarm' tab is active. The interface displays the following settings and visual elements:

- Safety Radius:** CPA < 0.16 nm (with a dropdown arrow)
- Time Limit:** to CPA < 15 minutes (with a dropdown arrow)
- Own Ship:** A blue ship icon with a red line indicating a distance of 296 meter to a red circle representing the safety radius.
- Target:** A red target icon with an arrow pointing towards the own ship.
- Closest Point of Approach (CPA):** Text label with a red arrow pointing to the 'CPA-Alarm ON' button.
- Buttons:** 'CPA-Alarm ON', 'Read', and 'Program' buttons are visible at the bottom.

**Important!**  
value has to be „ON“

## 4.TROUBLESHOOTING

Problem	Cause	Solution
Device does not deliver an acoustic signal	Device "off"	turn the power switch on (1)
	Cables are not connected	Please check if the cable connection is correct. Brown to brown, white to white.
	Software is set on "CPA-Alarm off"	Change software into "CPA-Alarm ON"

## 5.MAINTANANCE

Do not use any abrasive or solvent-containing cleaning products to clean the easyCPA<sup>3</sup>-Alarm as some solvents may harm the case material. To clean, wipe down with a damp cloth.

The easyCPA-Alarm contains no parts that require maintenance.

Unauthorized opening of the easyCPA<sup>3</sup>-Alarm system will invalidate the warranty.

## 6.CONTACT AND PRODUCT SUPPORT INFORMATION

Although WEATHERDOCK AG strives for accuracy in all its publications; this manual may contain errors or omissions, and is subject to change without prior notice. WEATHERDOCK shall not be held liable for any specific, indirect, incidental or consequential damages as a result of its use. WEATHERDOCK components may only be used in safety of life devices or systems, with the express written approval of WEATHERDOCK, as the failure of such components could cause the failure of the WEATHERDOCK device or system. If these fail, it is reasonable to assume that the safety of the user or other persons may be endangered.

**Contact:**

Always contact your local shop or dealer if you have questions. In most cases he can help you quickly and effectively. If your dealer does not know what to do, please do not hesitate to contact us:

**Weatherdock AG**  
**Sigmundstraße 1807**  
**90431 Nürnberg**  
**Tel: +49 [0] 911-376638-30**  
[info@weatherdock.de](mailto:info@weatherdock.de)

Please see also our WEATHERDOCK Website: [www.easyAIS.com](http://www.easyAIS.com)

## 7. license agreement

If you are using an easyTRX2 you agree to the terms and conditions of the following warranty agreement. Please read the agreement carefully.

WEATHERDOCK AG grants a limited license for use of the device for normal use. All titles and intellectual property rights in and to the software remain with WEATHERDOCK AG.

## 8. WARRANTY

This Weatherdock product is warranted to be free from defects in materials or workmanship for 24 month from the date of purchase. Within this period, Weatherdock will at its sole option repair or replace any components that fail in normal use such as repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer bears any transportation costs. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

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IN NO EVENT SHALL WEATHERDOCK BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT.

Weatherdock retains the exclusive right to repair or replace the unit or software or offer a full refund of the purchase price at its sole discretion. Such remedy shall be your sole and exclusive remedy for any breach of warranty.

If you choose to use the EasyTRX2 and/or/or easySPLIT or both in a boat, it is the sole responsibility of the owner/operator of the EasyTRX2 to secure the easyTRX2 so that it will not cause damage or personal injury in the event of an accident. It is the sole responsibility of the operator of the boat to operate the boat in a safe manner, maintain full surveillance of all boating conditions at all times, and never become distracted by the EasyTRX2 to the exclusion of safe operating practices.

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