

easyTRX2-IS

AIS goes mobile for more convenience aboard!

Weatherdock WiFi products are a quantum jump regarding the simplification of data use aboard. With the built-in WiFi module, an additional navigation place is created on your boat. Received AIS data, and in addition, multiplexed NMEA data like GPS, wind, depth, speed, etc. from your boat are wirelessly linked to your mobile device. The latter can be a notebook, tablet PC, iPhone or iPad.

To visualize data on your mobile device, Weatherdock offers a free App named "easyAIS", which is available for download through the Apple store.

In case you are running a mobile device with lower screen resolution, we still recommend to use a suitable plotter with appropriate resolution for your safety.

Function:

The easyTRX2-IS-WiFi receives the incoming AIS data sent by commercial vessels (Class A), pleasure boats (Class B) and AIS S.A.R.T. (easyRESCUE). These telegrams are processed into a NMEA protocol which can be interpreted by chart plotters or PC software. With the wireless link to your mobile device, these data will promptly be received there as well. The integrated antenna splitter allows you to share the existing VHF aerial for both, the VHF radio communication and the AIS communication.

The easyTRX2-IS-WiFi transmits according the AIS-Class B standard all own AIS data like ship name, speed and course over ground, etc. to every AIS receiver or transceiver within its radio range. Using the easyTRX2-IS-WiFi is the simplest way to make yourself visible to others, having all necessary information about your surrounding too.

Running the "easyAIS" App, you will see a radar screen appearing, showing all received AIS targets within range. A click on a target will prompt you detailed information to this specific target, such as ship's name, speed and course over ground, etc. Additional information to your own boat's navigational status like your own speed, course, wind, etc. are available through sub-menus of the App, if you feed the easyTRX2-IS-WiFi built-in multiplexer with boat information.

What is necessary to use the easyTRX2-IS_WiFi?

Required is an own GPS antenna. To receive and transmit AIS, you can use an extra VHF aerial connected to the antenna input.

Characteristics:

- # integrated WiFi module
- # provides wireless TCP/IP, NMEA 0183 (34800 baud)
- # NMEA input with multiplexer function for GPS and other boat instrument data
- # WiFi range of 30 m (depending on local conditions)
- # fully compatible with popular navigational software or Apps for iPhone or iPad
- # Separate cables to switch on "silent mode" or "PAN PAN mode".
- # USB-Port as data and communication interface
- # NMEA output selectable between 38400 and 4800 Baud rate by software
- # Operating display with 8 LED's
- # CPA alarm capability even with disconnected plotter.
- # External CPA alarm sounder easily connectable
- # AIS SART Alarm capability even with disconnected plotter. Shared use of the CPA alarm sounder.
- # Wide DC power input: 9.6VDC - 32VDC
- # SD Card Recorder for "BlackBox" use.
- # integrated VHF antenna splitter

Technical data:

- AIS transceiver
- # 1 transmitter according AIS Class B specification, output power: 2W
- # dual channel receiver on 161,975 MHz and 162,025 MHz

Alternatively you can make use of the already installed VHF aerial, which you are using for VHF radio communication. In this case, connect the VHF antenna to the easyTRX2-IS-WiFi antenna socket. The VHF radio is simply connected to the VHF radio socket you will find at the front panel of the easyTRX2-IS-WiFi. As a third solution you can run the easyTRX2-IS-WiFi with Weatherdock's VHF/GPS combi antenna. In that case you need not touching already installed antenna hardware at your boat. The mobile device has to have an installed AIS compatible software or App too.

Which devices do fit to the easyTRX2-IS_WiFi?

A PC/notebook is stringent necessary for configuration of your easyTRX2-IS-WiFi. If used for navigation, a navigational, AIS compatible software needs to be installed on your PC/notebook. Running a chartplotter or a WiFi compliant mobile device for navigation, a PC/notebook is of course not necessary. The operating system on your PC/notebook must be Windows XP SP2, Windows Vista or Windows 7. The screen resolution shouldn't be less than 800*600 at least. To transmit your own AIS data, a MMSI number must be programmed to the easyTRX2-IS-WiFi. The MMSI number can be programmed by yourself; alternatively ask your dealer to do it for you. Normally this MMSI number is equivalent to the MMSI number you are running with your VHF radio.

If you are not yet registered with a MMSI number, please contact the national authorities to apply for a MMSI. In Germany please contact the "Bundesnetzagentur". Information can be found here: "www.bundesnetzagentur.de"



- Enhanced functionality:
- integrated Wifi module
- integrated splitter
- separate cables for "silent mode" or persistent "mayday AIS" signal
- additional USB port
- selection by software of 38400 or 4800 Baud rate
- CPA alert even without plotter connected
- Use as signal source for external CPA signal
- Enlarged voltage input
- SD Card Recorder for "BlackBox" employment
- Integrated Multiplexer

- # 25 kHz channel spacing
- # -107 dBm RX sensitivity (minimum)
- Voltage requirement: 9.6 V - 32 VDC; 380 mA @ 12V DC
- Power: 4.5 W
- NMEA input: 4800 Baud
- NMEA output: NMEA 0183 (34800 Baud/4800 Baud), message type: VDM
- PC connection
- # USB (driver supplied), compatible to Windows XP, Vista, Win7
- # for Linux or Mac use "windows emulation"
- WiFi
- # maximum range: 100 m (in free air)
- # usual range: approx. 30 m
- # maximum number of Wifi users: 1
- Antennas
- # required connection to a VHF antenna
- # required connection to a GPS antenna
- # VHF antenna impedance: 50 Ohm, SO239
- # GPS antenna input impedance: 50 Ohm, BNC
- # WiFi antenna supplied
- Dimensions
- # 198 mm (L) 158 mm (W) 47 mm (H), # Weight approx. 400 g
- BSH approval: BSH / 46162 / 4321734 / 10

This product is available at:



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