em-trak 430-0013

em-trak Great Product User Manual

Model: 430-0013

Introduction

The em-trak Great Product is a robust and versatile marine electronic device designed for enhanced navigation and safety. This manual provides essential information for the proper installation, operation, and maintenance of your device, ensuring optimal performance and longevity.

Please read this manual thoroughly before using the product to familiarize yourself with its features and functions.

Setup

Proper setup is crucial for the reliable operation of your em-trak Great Product. Follow these steps to connect the device.

Product Overview



Figure 1: Top view of the em-trak Great Product. This image displays the main body of the device, which is black with distinctive orange sections on both ends. The top surface features the 'em-trak AIS' logo and indicator lights, providing a general overview of the product's design.

Connecting Power and Data

Locate the rear panel of the device to connect power and NMEA 2000 data cables.



Figure 2: Rear panel connections. This image shows the back of the em-trak Great Product, highlighting the two primary connection ports. On the left is the 'POWER/0183' port, a multi-pin circular connector for power input and NMEA 0183 data. On the right is the 'NMEA 2000' port, a standard five-pin circular connector for NMEA 2000 network integration. A small, recessed port is also visible between them.

- **POWER/0183 Port:** Connect the provided power cable to this port. This port also supports NMEA 0183 data input/output. Ensure the connection is secure to prevent power interruptions.
- **NMEA 2000 Port:** Connect your NMEA 2000 network cable to this port for seamless integration with other marine

electronics. This allows for data sharing across your vessel's network.

Antenna Connections

The front panel of the device features connections for various antennas.



Figure 3: Front panel antenna connections. This image displays the front side of the em-trak Great Product, featuring three coaxial antenna connectors. From left to right, these are labeled 'ANTENNA' (likely for AIS), 'VHF RADIO' (for a dedicated VHF antenna), and 'GNSS' (for the GPS/GNSS antenna). Each port is a standard threaded coaxial connector, designed for secure and reliable antenna attachment.

- **ANTENNA Port:** Connect your primary AIS antenna to this port. This is essential for transmitting and receiving AIS signals.
- **VHF RADIO Port:** If applicable, connect your VHF radio antenna here. This port is typically used for dedicated VHF communication.
- **GNSS Port:** Connect your GNSS (GPS) antenna to this port. A strong GNSS signal is required for accurate positioning and timing data.

Ensure all connections are tightened securely to maintain signal integrity and prevent water ingress, as the device is waterproof.

Operating Instructions

Once properly installed and powered on, the em-trak Great Product will begin its operational sequence.

- **Power On:** After connecting power, the device will automatically power on. Observe the indicator lights on the top panel (refer to Figure 1) to confirm operational status.
- **Self-Test:** The device performs a self-test upon startup. Any errors will be indicated by specific light patterns or through connected display units.
- **Data Transmission:** Once a valid GNSS fix is acquired and all necessary data is configured (e.g., vessel details via connected MFD), the device will begin transmitting AIS data.
- **Monitoring:** Monitor the device's status through your connected chartplotter or display. Ensure that AIS targets are being received and your own vessel's data is being transmitted correctly.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your em-trak Great Product.

- **Cleaning:** Periodically clean the exterior of the device with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Connection Checks:** Regularly inspect all cable connections (power, NMEA 2000, antennas) for corrosion or looseness. Tighten connections as needed.
- **Software Updates:** Check the em-trak official website for any available firmware updates. Keeping the software

updated ensures access to the latest features and bug fixes.

- **Environmental Protection:** Although the device is waterproof, ensure it is installed in a location that minimizes exposure to extreme temperatures or direct, prolonged sunlight.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Device not powering on.	No power supply; loose power cable.	Check power source and ensure power cable is securely connected to the POWER/0183 port.
No AIS targets displayed.	Antenna not connected; poor GNSS signal; incorrect NMEA 2000 configuration.	Verify ANTENNA and GNSS connections. Ensure clear sky view for GNSS antenna. Check NMEA 2000 network and display settings.
Device not transmitting AIS data.	No GNSS fix; vessel data not programmed; antenna issue.	Confirm GNSS status. Program vessel static data (MMSI, call sign, etc.) via connected display. Inspect AIS antenna and cable.

For further assistance, refer to the official em-trak support resources or contact a qualified marine electronics technician.

Specifications

Key technical specifications for the em-trak Great Product (Model: 430-0013).

- **Model Name:** 430-0013
- **Brand:** em-trak
- **Color:** multicolour
- **Material:** Plastic
- **Item Weight:** 1.01 Kilograms
- **Package Dimensions (L x W x H):** 7.64 x 7.28 x 5.67 inches
- **Special Feature:** Waterproof
- **Mounting Type:** Bulkhead Mount or Deck Mount
- **Included Components:** Great Product (main unit)
- **UPC:** 672975210564
- **First Available:** September 5, 2023

Warranty and Support

The em-trak Great Product comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the documentation included with your purchase or visit the official em-trak website.

For technical support, product registration, or to find authorized service centers, please visit theem-trak official website or contact their customer service department directly.

© 2023 em-trak. All rights reserved.
This manual is subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question