

FURUNO FUR-IF-NMEA2K2

FURUNO FUR-IF-NMEA2K2 NMEA 0183 to NMEA 2000 Converter Instruction Manual

Model: FUR-IF-NMEA2K2

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the FURUNO FUR-IF-NMEA2K2 NMEA 0183 to NMEA 2000 Converter. This device facilitates bidirectional data conversion between NMEA 0183 and NMEA 2000 CAN bus systems, offering selectable high-speed modes for specific data types like heading and AIS.

Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. SAFETY INFORMATION

Always observe the following precautions to prevent injury and damage to the equipment.

- Ensure power is disconnected before installation or maintenance.
- Do not expose the unit to extreme temperatures or direct sunlight for prolonged periods.
- Consult a qualified technician for any repairs beyond basic troubleshooting.
- Use only specified power sources and cables.

3. SETUP AND INSTALLATION

The FUR-IF-NMEA2K2 converter is designed for straightforward integration into existing marine electronic systems. Proper installation is crucial for optimal performance.

3.1 Unpacking and Inspection

Upon receiving the unit, carefully unpack it and inspect for any signs of damage. Ensure all components are present.

3.2 Mounting Location

Select a mounting location that is dry, protected from direct weather exposure, and allows for adequate ventilation. Avoid areas with high vibration or electromagnetic interference.

3.3 Wiring Connections

The converter features connections for both NMEA 0183 and NMEA 2000 networks. Refer to the diagram below for proper wiring.



Figure 1: FURUNO FUR-IF-NMEA2K2 NMEA Data Converter. The image displays the converter unit with a circular NMEA 2000 connector on one end and multiple color-coded bare wires for NMEA 0183 connections on the other. The main body of the converter is black with a label indicating "NMEA DATA CONVERTER", "TYPE IF-NMEA2K2", "SER.NO. 001866", and options for "NORMAL" or "HIGH SPEED (CUT ORANGE)" operation.

3.3.1 NMEA 2000 Connection

Connect the circular NMEA 2000 connector to your vessel's NMEA 2000 backbone. Ensure a secure, watertight connection.

3.3.2 NMEA 0183 Connection

The bare wires are for NMEA 0183 input and output. Refer to your NMEA 0183 device's manual for specific wiring requirements. Common connections include:

- **Data In (Rx):** Connect to the NMEA 0183 Talker's Output (Tx).
- **Data Out (Tx):** Connect to the NMEA 0183 Listener's Input (Rx).
- **Ground:** Connect to the common ground of the NMEA 0183 system.

3.4 High-Speed Mode Selection

The converter supports a high-speed mode for specific data types. To enable high-speed mode (e.g., for heading and AIS data), locate the orange wire and follow the instructions on the converter's label. Typically, this involves cutting or connecting the orange wire as indicated for "HIGH SPEED (CUT ORANGE)" or "NORMAL" operation.

Note: Incorrect selection may lead to data transmission errors. Consult your system's requirements before altering this setting.

4. OPERATING INSTRUCTIONS

Once properly installed and powered, the FUR-IF-NMEA2K2 converter operates automatically, translating data between the connected NMEA 0183 and NMEA 2000 networks.

4.1 Power On

Ensure all connections are secure. Apply power to the NMEA 2000 network. The converter will power on automatically as it draws power from the NMEA 2000 bus.

4.2 Data Flow

The converter transparently translates NMEA 0183 sentences to NMEA 2000 PGNs (Parameter Group Numbers) and vice-versa. Verify data reception on your connected NMEA 0183 and NMEA 2000 devices.

- **NMEA 0183 to NMEA 2000:** Data from NMEA 0183 talkers connected to the converter's input will be broadcast on the NMEA 2000 network.
- **NMEA 2000 to NMEA 0183:** Relevant NMEA 2000 PGNs will be converted into NMEA 0183 sentences and output via the converter's NMEA 0183 output wires.

5. MAINTENANCE

The FUR-IF-NMEA2K2 converter is designed for minimal maintenance. Regular checks can help ensure long-term reliability.

- **Periodic Inspection:** Annually inspect all cable connections for corrosion or damage. Ensure connections are tight.
- **Cleaning:** If necessary, gently wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Software Updates:** Check the FURUNO website periodically for any firmware updates for the converter. Follow specific instructions provided with any updates.

6. TROUBLESHOOTING

If you experience issues with the converter, refer to the following troubleshooting guide before contacting support.

Problem	Possible Cause	Solution
No data on NMEA 2000 network from NMEA 0183 device.	No power to converter. Incorrect NMEA 0183 wiring. NMEA 0183 device not transmitting. High-speed mode incorrect.	Verify NMEA 2000 network power. Check NMEA 0183 input wiring (Rx/Tx/Ground). Confirm NMEA 0183 device is operational. Ensure high-speed mode setting (orange wire) matches data type.

Problem	Possible Cause	Solution
No data on NMEA 0183 device from NMEA 2000 network.	Incorrect NMEA 0183 wiring. NMEA 2000 network not transmitting relevant PGNs.	Check NMEA 0183 output wiring (Tx/Rx/Ground). Verify NMEA 2000 network is active and broadcasting required data.
Intermittent data loss.	Loose connections. Electrical interference.	Inspect and secure all connections. Relocate the converter away from sources of interference if possible.

7. SPECIFICATIONS

Feature	Detail
Model	FUR-IF-NMEA2K2
Function	NMEA 0183 to NMEA 2000 Converter (Bidirectional)
NMEA 0183 Ports	Input/Output (bare wire connections)
NMEA 2000 Port	1 (standard NMEA 2000 connector)
Power Supply	Powered via NMEA 2000 network
High-Speed Mode	Selectable (e.g., for Heading, AIS data)
Manufacturer	FURUNO

8. SUPPORT AND WARRANTY

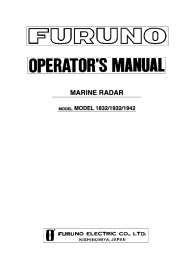
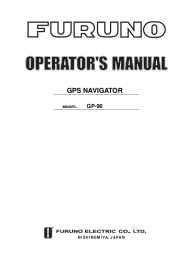
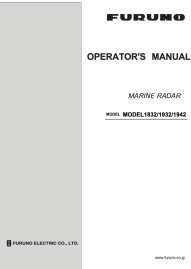
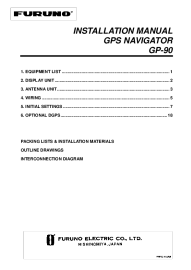
For technical assistance or warranty inquiries, please contact FURUNO customer support. Refer to the official FURUNO website for the most current contact information and warranty policy details.

FURUNO Website: www.furuno.com



Related Documents - FUR-IF-NMEA2K2

	Furuno GP340 GNSS Receiver FAQ: Features, Compatibility, and Installation Frequently Asked Questions about the Furuno GP340 Global Navigation Satellite System (GNSS) Receiver, covering its features, compatibility with NavNet systems, installation details, and NMEA data output.
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	FURUNO Operator's Manual: Marine Radar Models 1832, 1932, 1942 This operator's manual provides detailed information on the installation, operation, maintenance, and specifications for FURUNO Marine Radar models 1832, 1932, and 1942. It covers principles of operation, basic controls, menu functions, troubleshooting, and safety instructions.
	FURUNO GP-90 GPS Navigator Operator's Manual Comprehensive operator's manual for the FURUNO GP-90 GPS Navigator, detailing features, setup, operation, and maintenance for reliable marine navigation.
	FURUNO SCX-21 Satellite Compass Operator's Manual Operator's manual for the FURUNO SCX-21 Satellite Compass, detailing installation, operation, settings, and maintenance for marine navigation. Includes technical specifications and troubleshooting.
	FURUNO Marine Radar Models 1832/1932/1942 Operator's Manual Operator's Manual for FURUNO Marine Radar Models 1832, 1932, and 1942. This guide covers principles of operation, basic controls, menu functions, maintenance, troubleshooting, and installation of these advanced marine navigation systems.
	Furuno GP-90 GPS Navigator Installation Manual Comprehensive installation manual for the Furuno GP-90 GPS Navigator, covering equipment lists, unit mounting, wiring, initial settings, optional DGPS, and interconnection diagrams. Includes safety instructions and technical specifications.

[\[pdf\]](#) Warranty Accessories

dyamauchi False Creek Fuels Page 206 340 falsecreekfuels 2021 10 Untitled electronics • Built in wireless capabilities for ActiveCaptain app and VIRB® action camera integration The Rogue Pro is an ultra small compact Wireless Bridge and STRIKER Vivid 7sv 7 Fishfinder GPS 800 250 ClearVu 500 SideVu GT52HW Garmin Plus Fishfinders Designed to not only see fish MHS 75 VHF Radio Compact

design JIS8 submersible Dual triple UNI Accessories MHS75DC DC adaptor BBTG0927 001 Battery pack Lowrance HDS Gen 3 Gen2 Touch Simrad NSS NSO EVO2 Go7 W 8 x H 4 D 9 1 2 WES WP20 SPC15RP Wesmar Hailer Speaker Cobra MR HH600 FLT BT radio with DSC shows your HH350 Floating Radios Floats Meets JIS7 IPX7 Gen1 Elite series NSE B G Zeus New C 4x speaker channels pair per zone 5 2 HD ID™ sonar true dual channel CHIRP both ClearVü SideVü scanning technology transducers sold separately VES XB8000 Vesper WatchMate XB6000 C performance tuned Axiom a new generation of award winning Raymarine multifunction displays Optimized speed equipped a Faria Chesapeake S Speedometer w diameter 60 MPH Premium LED back lit dials No external antenna required Pioneer Marine Amplifiers PIO GM ME400X4 RCA inputs ME500X1 Mono Max power output at Ohms 600W Aluminum top plate Nautix™ view display gWind™ transducer GNX™ Wind Displays position data Loran TD s USB port importing exporting marine watch AC 120VAC±5 50 60Hz Three year warranty Part Volts Amps Humminbird ION ONIX CMA NA D021 SD 4D Canda North East D025 am pm 11 network version AGS allows COB FLT** Black ** Limited Quantity HH150 orange core make retrieving easier if dropped overboard Series X Generation G2 range flexible monitor solution designed multi input MMD models provide wide choice size format Echomap UHD have microSD Cardslot Ultra Can do QuickDraw Contours create contour chart direct unit srsItd

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pNAU0nIr5QclGdb4FQ4TVS30Pw0d8ufI3GYx ProSafe FS installs easily does require dedicated to

Noise level @ 7m distance 25 dB A Operating temperature 4°F 104°F GP 330B high receiver any type

Furuno Antenna GP1670F 1870F Also the replacement 3 RVX High Performance Multifunction

Navigation Easy upgrade Quantum fits same bolt pattern as other scanners Mast mount 18 Sitex Koden

radars Uncut pod stainless steel clamp usable face SVW Adaptor Plate E90W AXIOM 12 RAY A80565

E120 AXIOM transom Depth 199 61m Reads depth both Mercury Mariner O Bs Mercruiser stern drives

FAR 13017 12828 MS PAE can 120 240 volts one Comes adaptors fit vertical or horizontal rails C12X

E12X A80527 A12X fits Selectable quiet time choices 9 CM CG1 CF Micro double ended cordset M F

0m grey IPX8 Submersible Rated Height Weight oz year S100 Autopilot Remote Complete Base Station

T70154 EV 100 Semi solar panel busbars PERC Passivated Emitter 3G 4G masts larger SVW SM U

Koden NPT Euro single standard ground Cylinder Head Temperature Icom IC M73 Handheld Last Call

Voice recording Active Noise ICO M93D 01 M85 Covering 136 174 MHz Land Mobile frequency 700 mW

powerful audio 1W hydraulic cockpit mounted correct ACU vessel dependent are available pump either

on ram The This portable remote will function up 10m from lighting control module giving you freedom

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Stereos / Speakers VHF Radios / Hailers Antennas Mounting Meters Alternators Chargers Inverters
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Sounders / Hawkeye BR ||| ELECTRONICS Instruments Stereos / Speakers VHF Radios / Hailers
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Depth Sounders / Hawkeye BR ||| ELECTRONICS Instruments Stereos / Speakers VHF Radios / Hailers
Antennas Mounting Meters Alternators Chargers Inverters Isolators, Integrators Separators Corrosion
Control Products Gauges Fuel Metering / Senders Depth Sounders / Hawkeye BR ||| ELECTRONICS
Instruments Stereos / Speakers VHF Radios / Hailers Antennas Mounting Meters Alternators Chargers
Inverters Isolators, Integrators Separators Corrosion Control Products Gauges Fuel Metering / Senders

Depth Sounders / Hawkeye BR ||| ELECTRONICS Instruments Stereos / Speakers VHF Radios / Hailers
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