FURUNO USER HANDBOOK COLOR INSTRUMENT Model FI-70

This User Handbook covers the basic installation and operation of the FI-70. For detailed information, refer to the Operator's Manual, not included with the product carton but accessible from the URL or quick response code to the right. URL: http://www.furuno.com/en/support/manuals/terms



In the search box at the top of the screen, enter "FI-70", then click "Search".

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SAFETY INSTRUCTIONS

The operator and installer must read the applicable safety instructions before attempting to operate or install the equipment.



UNIT OVERVIEW, FUNCTIONS



1. Power/Brill key

- Turn power on/off
 Open Brilliance window
- 2. Menu/Back key
 - Open/close the menu
 Go back one menu layer

3. Software keys

- Change displayed page
- Adjust settings
- 4. Function key
- Confirm selection/changes
 Switch displayed data

Move cursor

5. Key Indicators

The indicators show the operative function for the **Software** and **Function** keys. Press any key to display the indicators. If there is no operation, the indicators are minimized after a short period of time, however, they are always displayed when a menu is open. The indications vary, depending on the displayed screen/menu.



INSTALLATION

Installation considerations

- When installing the FI-70, keep the following points in consideration:
- Select a well-ventilated location.
- Select a location with minimal vibrations and shock.
- Keep the FI-70 away from heat sources.
- Observe the compass safe distances. (Standard: 0.30 m, Steering: 0.30 m)
- Select a location with a smooth surface.
 (1 mm flatness or less)
- Keep cable lengths in mind when selecting the mounting location.

Flushmount Installation

- When not in use, fit the rubber cover to the FI-70. Leave sufficient room surrounding the FI-70 to allow fitting of the rubber cover.
- Referring to the outline drawings at the back of the handbook, leave sufficient space for service and maintenance.
- Where the rear connector or T-connectors may get wet, waterproof the connectors. (See page 4 for how to waterproof the connectors.)



Frontmount Installation (Option)

The optional frontmount kit OP26-29 may be used to install the FI-70 where access behind the console is limited.

Note: Do not fit the flushmount sponge to the FI-70. The unit will not lock into the frontmount panel.

1 Using the template supplied with the frontmount kit, cut a hole in the mounting location.

2 Fit the snap pins (supplied) to the FI-70, as shown in the figure below.

3 Fit the frontmount panel to the console with four self-tapping screws (supplied).

- **4** Referring to page 4, connect and ground the FI-70.
- **5** Set the FI-70 into the frontmount panel, using the snap pins and snap pin slots as guides.

O Push the FI-70 into the frontmount panel until a "click" sound is made, indicating that the FI-70 is now secure in the panel.



Preventing water seepage from the mounting holes

Where there is a risk of water seepage behind the unit or through the screw holes, apply marine sealant around the FI-70 for waterproofing. Referring to the figure on the right, apply masking tape to the soft cover locking points to prevent marine sealant from blocking the locking points.

There are eight locking points in total, four at the top rear of the unit and four at the bottom rear of the unit.

Marine sealant blocking these locking points will prevent the soft cover from fitting to the FI-70.



Removing the FI-70 from the frontmount panel, release the pin holders at the back of the panel, then remove the FI-70. Failure to release the pin holders when removing the FI-70 may damage the FI-70, the pin holders or the pins.

WIRING



CAN bus (NMEA2000) Backbone: Terminal resistors must be installed at both ends of the backbone.

Network Connection

Use the included cable to connect the FI-70 NMEA2000 port to the CAN bus (NMEA2000) network backbone.

FI-50 Series Retrofitting

Unlike the FI-50 series, the FI-70 can not be daisy-chained. When retrofitting from the FI-50 series, connect each FI-70 to the CAN bus (NMEA2000) backbone.

How to waterproof the connectors

Where the rear connectors and CAN bus (NMEA2000) connectors are subjected to moisture or water spray, waterproof the connectors as shown below.

- Wrap the connection point with a single layer of vinyl tape.
- Wrap one layer of self-bonding tape over the vinyl tape.
- 3 Wrap two layers of vinyl tape over the self-bonding tape.



Grounding

- Fabricate a ground wire (IV-1.25sq., local supply) with a closed-end terminal.
- 2 Unfasten the ground terminal screw, then referring to the figure below, connect the ground wire to the ground terminal of the FI-70.
- 3 Connect the loose end of the ground wire to the ship's ground terminal.



INITIAL SETTINGS

After mounting and wiring are completed, when the CAN bus (NMEA2000) network is turned on, the FI-70 will start up. If this is the first time the FI-70 has been powered, the [Initialization] menu is displayed. Set the language, units of measurement and your ship type in this menu. After these settings are complete, select the appropriate data source(s) for the displayed data.

2 Using the same method, select [Units]

then press the function key.

How to Select a Language and Units of Measurement

1 Use the **software** keys to select the language then press the function key.

Initialization		
Language	English	
Units	Francais	
Туре:	Espanol	1
Engine Setup	Deutsch	
E	nt / 🔻	

Initializa	tion
Language	English
Units	
Туре:	
Engine Setup	
 Ent 	_/_ _

Units of measurement have a language-based default setting. For example, English has the following unit defaults.

- Depth : ft
- Speed : kn
 - Wind Speed
- Fuel : gal
- Distance : NM

- Atmospheric Pressure : hPa Engine Pressure

Temperature

: psi

: °F

: kn

How to Set Up Own Ship Type

The default displayed pages and categories depend on the type of ship selected. Each page may be customized later.

 Select [Type] from the [Initialization] menu, then press the function key.



2 Select your vessel type from the menu, then press the function key.



Oress the Menu/Back key to return to the [Initialization] menu.

Vessel-type default display settings

Page	Power Boat	<u>Sailboat</u>	Engine Monitor
1	Compass	Compass	Engine
2	STW	AWA	Data Box (Engine Oil, Engine Temp., etc.)
3	Water Temp. Graph	STW	OFF
4	Custom Box (POSN, STW, COG)	Custom Box (STW)	OFF
5	Custom Box (POSN, W Temp., SOG)	Custom Box (POSN, AWS, STW)	OFF
6	OFF	OFF	OFF
7	OFF	OFF	OFF

Where the vessel type is set to [Engine Motor], the following settings must also be adjusted from the [Engine Setup] menu.

- [Number of Engine] : Number of engines to have data displayed.
- [Engine Assign] : Select which engine's data will be displayed. (When [Number of Engine] is set to [1].)
- [Engine PORT] : Select which engine will be displayed as the port engine. (When [Number of Engine] is set to [2] or [3].)
 - [Engine STBD] : Select which engine will be displayed as the starboard engine. (When [Number of Engine] is set to [2] or [3].)
 - : Select which engine will be displayed as the center engine. (When [Number of Engine] is set to [3].) [Engine Center]

How to Select the Data Source

This section explains how to set the data source(s) for displayed data.

1 Select [System] from the main menu, then press the function key.



4 Select the device to use as the data source, then press the function key.



2 Select [Data Source], then press the function key.



- 6 Repeat steps 3 to 4 to set up the remaining data sources.
- 3 Select the item who's data source you wish to adjust, then press the function key.



Automatic data source switching If data from any data source is interrupted, the FI-70 will automatically switch data sources to the next available source. If there is no source available, the data is not displayed.

How to Set Up the IF-NMEAFI (option)

When connecting analog sensors such as the wind transducer FI-5001/L, the optional IF-NMEAFI data converter must be used as between the sensor and the FI-70. When using the IF-NMEAFI, set up the IF-NMEAFI using the following procedure.

- 1 Select [System] from the main 2 Select [IF-NMEAFI], then 3 Select [Select IF], then menu, then press the function press the function key. press the function key. key. System IF-NMEAFI Alarm Log -NMEAF ect IF Sensor in Use SC-30 Setup Category SC/SCX Setup Resistance Full: I/O Setup Resistance Mid Ent 4 Select the IF-NMEAFI to set **5** Select the [Category], then 6 Select the connected up, then press the function press the function key. sensor's category, then key. press the function key. IF-NMEAFI IE-NMEAEI IF-NMEAFI elect IF Wind ST800/ST850 Catego Category IF-NMEAF :000007 Fue Resistance IF-NMEAF :000008 Resistance Full Resista 0h Flesh Water Resistance Mid: Resista IF Categories and their respective sensors/gauges • [Wind]: FI-5001/L wind sensor [ST800/ST850]: Water temperature sensor (ST-02PSB/MSB) • [Fuel]: Fuel tank gauge [Fresh Water]: Fresh water tank gauge
 - [Waste Water]: Waste tank gauge
- [Oil]: Oil tank gauge

- [Live Well]: Live well tank gauge
- [Black Water]: Black water tank gauge

STANDARD OPERATION

How to Adjust Brilliance and Change between Day/Night Modes

Screen brilliance and changing from Day to Night mode may be done from the Brilliance setting window. The Brilliance setting window disappears if the **Menu/Back** is pressed, or if there is no interaction over a short period.

Press the Power/Brill key to display the Brilliance setting window.





2 Press the **software** keys to

3 Press the **function** key to change between Day and Night modes.





*: The brilliance may also be changed by pressing the Power/Brill key.

Screen brilliance settings sharing

FI-70 units on the same network may be grouped, allowing the brilliance settings and language settings to be shared. For example, if one FI-70 in Group A has the brilliance setting adjusted, all FI-70 units in Group A are also adjusted. For further details on groups, see page 11.

How to Change Pages

Press the **software** keys to change pages. A total of seven pages may be displayed. The page number is displayed in the center of the screen for several seconds.



Pages set to [OFF] are skipped when changing pages. In the example below, pages 2 and 6 are set to [OFF] and are skipped, the displayed pages would be $[1 \leftrightarrow 3 \leftrightarrow 4 \leftrightarrow 5 \leftrightarrow 7]$.



How to Adjust Page Settings (Displayed Category)

Each page may be customized to suit your needs.

1 Press the **Menu/Back** key to display the menu. Select [Disp Config], then press the **function** key.



Select the screen type (where available) then press the function key.



2 Select the page you wish to customize, then press the function key.



6 Press the **Menu/Back** key to complete the process.



3 Select the Category you wish to display, then press the **function** key.



Example: Compass category is selected.

Categories and displayable screens

Some categories have only one displayable screen. For further details on displayable screens for each category and displayable data, see "Page List by Category" on page 8.

Page List by Category

On-screen data display may be changed by pressing the function key.

Note1: On-screen data display requires connection of the appropriate sensor and [Data Source] menu set up. **Note2:** All maximum and average data are cleared at power off and calculated from power on.





HOW TO EDIT THE CUSTOM BOXES

How to Adjust Data Box Displayed Data

 With the Custom Data box page displayed, press the **function** key.

Depth	W Temp.
3855 ft	345 ₊
SOG	COG M
42.5 kn	345°
POSN 34°37.145'N	
Prev Ent Next	

Select the category to be displayed, then press the **function** key.



Select the box to adjust, then press the function key.

Depth 3855 ft	^{W Temp.} 345 ∘ғ
SOG	COG M
42.5 kn 345°	
POSN 34°37	.145'N

Press the software keys to select which data to display, then press the function key.

Depth	^{W Temp.}
3855 ft	345 ∘ғ
HDG Avg. T	^{сод м}
45°	345°
POSN 34°37	.145'N
 E 	nt / 🕨

3 Select [Select Data], then press the **function** key.



6 Press the **Menu/Back** key to complete the customization.

How to Adjust Custom Box Size Settings

1 With the Custom Data box page displayed, press the function key.

Depth	W Temp.
3855 ft	345 ₀⊧
SOG	COG M
42.5 kn 345°	
POSN 34°37.145'N	
Prev Ent Next	

42.5 kn

34°37.145'N

3855 ft

POSN

4 Press the **software** keys to select a **5** Press the **Menu/Back** key to box size, then press the **function** key.

345 ∘_F

2	Select the box to adjust, then
	press the function key.

Depth 3855 ft	^{W Temp.} 345 ∘ғ
sog 42.5 kn	^{сод м} 345°
POSN 34°37	.145'N

- complete the customization.
- 3 Select [Select Box Size], then press function key.



Note

Depending on the selected data type, some boxes have a fixed size and cannot be resized.

Ent Displayable data for the data boxes

Note: Sensor connection and data source settings are required for all listed data to be output.

Data Type	Displayable data		
Speed	STW	STW Max*	STW Avg.*
	SOG	SOG Max*	SOG Avg.*
	VWG	3-Axis Speed	
Wind	AWS	TWS	TWS Max*
	AWA	TWA	GWD M(T)
	Beaufort		-
Heading	HDG M(T)	Average HDG M(T)*	ROT
	HDG Tack M(T)		
Course	COG M(T)		
Navigation	BRG M(T)	RNG	WPT
	XTE	POSN	ETA Time
	ETA Date	Trip	Odometer
Boat	Rudder	Trim Tabs	Roll/Pitch
	Heave		
Engine	Engine RPM	Fuel Used	Fuel Rate
	Eng. Trim	Boost	Eng. Temp.
	Eng. Hour	Oil Press.	Oil Temp.
	Coolant P	E Load	Gear Oil T
	Gear Oil P		
Tank	T1 thru T6 tank information		
Depth	Depth		
Environment	Date	Time	W Temp.
	A Temp.	A Press.	Humidity
	Wind Chill	Dew Point	
Voltage	Volts		
OFF	Disable display for this be	DX.	

*: The average and maximum values are calculated from when the FI-70 is turned on. All calculations for average and maximum are reset when the power is turned off.

SHARING AND GROUPS

Network Settings

Some settings and offsets for the FI-70 may be shared across a CAN bus (NMEA2000) network. See the list below for details.



- [Stand Alone]: Settings are not shared across the network. This unit can be set up individually.
- [Sub]: Settings are received from a Multi Function Display (TZTL12F/TZTL15F), or a FI-70 unit assigned as [Master].
- [Master]: Settings for this FI-70 are shared across the network. This option is not available if there is a Multi Function Display (TZTL12F/TZTL15F) in the same network. In this case, the TZTL12F/TZTL15F is made the [Master].

CAN bus (NMEA2000) Network Shared Settings

After setting the sharing levels for the network, settings between units can be shared. All shared settings are displayed as gray menu items on FI-70 units assigned as [Sub]. The shared settings cannot be adjusted from a [Sub] FI-70 unit.

- [Display Format] menu [HDG/COG Ref], [Mag. Var.], [Time Offset] only
- [Data Source] menu All menu settings, excluding tank information ([Tank1] through [Tank 6]).
- [Data Calibration] menu All menu settings, excluding [W Angle Response].
- [Units] menu All menu settings.
- Language and Brilliance Sharing Between FI-70 Units

FI-70 units may be grouped together in one or more groups, allowing language and brilliance settings to be shared between FI-70 units in the same group.

As shown in the example figure below, adjusting the brilliance settings for one FI-70 unit in Group A changes the brilliance settings for all FI-70 units in the same group. While one FI-70 unit in a group has the brilliance adjusted or the language changed, all other FI-70 units in the same group cannot have the brilliance or language settings adjusted.



Grouping the FI-70 units eliminates the need to adjust each unit individually. Up to three groups (A, B, C) may be set up.

 Select [System] from the main menu, then press the **function** key.



Select [Group], then press the function key.



Select the group for this FI-70 unit, then press the function key.



MENU TREE

Main Menu

Menu/Back key	Default settings shown in bold italic.
 Displayed pag 	e-based menus (See Pages 14 to 15)
- Alarms	—STW Alarm ———— Alarm (OFF , Low, High; 0.0kn to 999.9kn, 10.0kn) — Buzzer (Short , Middle, Long, Continue)
	— SOG Alarm — Alarm (OFF , Low, High; 0.0kn to 999.9kn, 10.0kn) — Buzzer (Short , Middle, Long, Continue)
	—Max TWS Alarm—— Alarm (OFF , ON; 0.0kn to 99.9kn, 19.4kn) — Buzzer (Short , Middle, Long, Continue)
	─Wind Shift Alarm ── Alarm (OFF , ON) └── Buzzer (Short , Middle, Long, Continue)
	──High AWA Alarm ── Alarm (OFF , ON; 0° to S179°, S60 °) └── Buzzer (Short , Middle, Long, Continue)
	─Low AWA Alarm── Alarm (OFF , ON; P1° to P180°, P60°) ── Buzzer (Short , Middle, Long, Continue)
	Trip Alarm — Alarm (OFF, ON; 0NM to 9999NM, 0NM) Buzzer (Short, Middle, Long, Continue)
	—Depth Alarm ——— Alarm (OFF , Deep, Shallow; 0ft to 4921ft, 50ft) — Buzzer (Short , Middle, Long, Continue)
	− Voltage Alarm − Alarm (OFF , ON; 8.5V to 32.0V, 9.0V) Buzzer (Short , Middle, Long, Continue)
	─W Temp. Alarm ─── Alarm (OFF , Low, High, Shear; 0°F to 120°F, 50°F) ── Buzzer (Short , Middle, Long, Continue)
	—Engine Alarm — Alarm (OFF , ON) — Buzzer (Short , Middle, Long, Continue)
	Anchor Alarm Alarm (OFF , Distance, Depth) [Distance]: 0.00NM to 99.9NM, 0.00NM [Depth]: 0ft to 9999ft, 50ft Buzzer (Short , Middle, Long, Continue)
	 CPA/TCPA Alarm (OFF, ON) Alarm CPA (0NM to 6.00NM, 0.00NM) TCPA (30sec, 1min, 2min, 3min, 4min, 5min, 6min, 12min) Buzzer (Short, Middle, Long, Continue)
— Disp Config — Alarm Log — Sensor in Use	
└─ System ───	— Auto Power On (OFF, <i>ON</i>) — Key Beep (OFF, <i>ON</i>) — Panel Dimmer (1 to <i>8</i>) — Sharing (<i>Stand Alone</i> , Sub, Master) — Group (<i>A</i> , B, C)
	Display Format HDG/COG Ref (<i>Magnetic</i> , True) Mag. Var. (<i>Auto</i> , Manual; E99.9° to W99.9°, <i>0.0</i> °) Time Offset (-14:00 to 14:00, <i>0:00</i>) Time Display (12Hour, <i>24Hour</i>) Date Display (<i>MMM DD</i> , <i>YYYY</i> ; DD MMM YYY; YYYY MM DD) Position Format (DD° MM.MM', <i>DD° MM.MMM'</i> , DD° MM.MMMM',
	(Continued on next page)

1	(Continued from	previous page)
	- Engine Setup	 Number of Engine (1 to 3, 1) Engine Assign (1 to 4, 1) Where [Number of Engine] is set to [1] Engine PORT (1 to 4, 1) Where [Number of Engine] is set to [2] or [3] Engine STBD (1 to 4, 2) Where [Number of Engine] is set to [2] or [3] Engine Center (1 to 4, 3) Where [Number of Engine] is set to [3] Engine Refresh
	- Scale Range	 Speed (0-20kn, 0-40kn, 0-80kn) Engine RPM (0-4×1000rpm, 0-6×1000rpm, 0-8×1000rpm) Boost (0-30psi, 0-70psi, 0-150psi, 0-360psi, 0-440psi) Eng. Temp. (150-250°F, 120-300°F) Oil Press. (0-30psi, 0-70psi, 0-150psi, 0-360psi, 0-440psi) Oil Temp. (150-250°F, 120-300°F) Coolant P (0-30psi, 0-70psi, 0-150psi, 0-360psi, 0-440psi) Gear Oil P (0-30psi, 0-70psi, 0-150psi, 0-360psi, 0-440psi) Gear Oil T (150-250°F, 120-300°F) Voltage (8-16V, 16-32V)
	- IF-NMEAFI	 Select IF Category (Wind, ST800/ST850, Fuel, Fresh Water, Waste Water, Live Well, Oil, Black Water) Resistance Full (0 to 300ohm) Resistance Mid (0 to 300ohm) Resistance Empty (0 to 300ohm) Capacity (0 to 2640gal) IF-NMEAFI Test Refresh
_	SC-30 Setup	— Select SC — SBAS Mode (ON, OFF)
	- SC/SCX Setup	 Select SC/SCX SBAS Mode (ON, OFF) Ship Size/ANT Position Ship's Length (1.0 to 999.9 m) Ship's Length (1.0 to 199.9 m) Ship's Height (1.0 to 199.9 m) ANT Position X0 (Setting range depends on the ship's size information) ANT Position Y0 (Setting range depends on the ship's size information) ANT Position Z0 (0.0 to 99.9 m) CAL-SPD-POSN Y1 (Setting range depends on the ship's size information) CAL-SPD-POSN Y2 (Setting range depends on the ship's size information)
	[— System Information — Factory Default
	-I/O Setup	— Incoming PGN — Device List — NMEA2000 Refresh — Wiring Info — ICOM AIS Data (Yes , No)
	- Data Source	 Position Heading STW SOG Navigation Depth W Temp. Wind AIS Heave 3-Axis Speed Roll/Pitch
1	(Continued on ne	xt page)

 (Continued from previous page) Tank Source -Tank1 Fluid Type (Fuel, Fresh Water, Waste Water, Tank2 (Same as Tank1) Tank3 (Same as Tank1) Tank4 (Same as Tank1) Live Well, Oil, Black Water, Fuel (Gasoline)) Source (Select from displayed list) - Instance (0 to 14) Tank5 (Same as Tank1) Tank6 (Same as Tank1) Data Calibration Adjust(STW) (0.30 to 2.50, 1.00) Wind Damping (0s to 12s, 3s) Adjust(W Speed) (0.30 to 2.50, 1.00) W Angle Response (0s to 12s, **4s**) Offset(W Angle) (180° to P179°, **0°**) Offset(HDG) (180° to W179°, **0°**) Offset(Depth) (-327.8ft to +327.8ft, 0.0ft) Offset(W Temp.) (-179.8°F to 179.8°F, 0.0°F) SOG/COG Damping (0s to 59s) STW Damping (0s to 59s) 3-Axis Speed Damping (0s to 59s) ROT Damping (0s to 59s) Pitch Offset (-10.0° to 10.0°, **0.0°**) Roll Offset (-10.0° to 10.0°, **0.0°**) Air Press. Offset (-99.9hpa to 99.9hpa, **0hpa**) Air Temp. Offset (-99.9°C to 99.9°C, 0°C) VMG-CAL-SPD (STW, SOG) Demo Mode (OFF, ON) Diagnostic (OFF, Self Test, Keyboard Test, Screen Test) Restore Factory Default Language (English, Francais, Espanol, Deutsch, Italiano, Potugues, Dansk, Svenska, Norsk, Suomi) Depth (m, ft, fm, PB) Units Speed (*kn*, km/h, MPH) Distance (*NM*, km, SM, NM,yd, NM,m, km,m, SM,yd) Wind Speed (kn, km/h, MPH, m/s) Temp (°C, °**F**) Atmos. Press. (**hPa**, mbar) Engine Press. (kPa, bar, **psi**) ALT & Heave (m, ft) 3-Axis Speed (kn, km/h, MPH, m/s)

Category Specific Menus

Compass

Press the Menu/Back key — Offset(HDG)(180° to W179°, 0°) Heading-STW Press the Menu/Back key STW Adjust(STW)(0.30 to 2.50, 1.00) Alarm (**OFF**, Low, High: 0.0 to 999.9kn, **10.0kn**) STW Alarm Buzzer (**Short**, Middle, Long, Continue) SOG Press the Menu/Back key Alarm (OFF, Low, High: 0.0 to 999.9kn, 10.0kn) SOG SOG Alarm Buzzer (Short, Middle, Long, Continue) SOG Damping (0s to 59s)

• AWA, TWA, CH AWA, CH TWA, Ground Wind





1Graph, 2Graphs

Press the Menu/Back key

Depth Graph [*] Period (<i>5min</i> , 30min, 1h, 3h, 6h, 12h, 1d, 2d, 3d, 7d)	
- Nallye (15 to 452 III, 1500 II)	
Graph* Pende (0° E to 260° E (0° E)	
$\Box \text{ Graphi} = \Box \text{ Range (9 F to 309 F, 9 F)}$	
\square A remp. \square Pendu (3 <i>m</i> , 30 <i>m</i> , 11, 31, 61, 121, 10, 20, 30, 70)	
Graph $(9 \ r \ 0 \ 0.09 \ r, 9 \ r)$	
- All temp. Offset (-99.9 C to 99.9 C, UC)	
A. Press — Period (<i>5min</i> , 30min, 1h, 3h, 6h, 12h, 1d, 2d, 3d, 7d)	
Graph* Range (5 to 50hPa, 10hPa)	
Air Press. Offset (-99.9hpa to 99.9hpa, 0hpa)	

*: Depends on displayed graph data

AIS

Press the Menu/Back key



Custom Box



*: Dependant on data displayed in custom box.







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