FURUNO

10.4" LCD, Compact and High accuracy

DOPPLER SONAR CURRENT INDICATOR

Model CI-88



- Compact design and single-mold transducer for ease of installation and maintenance
- High definition 10.4" color LCD for displaying tide current detections
- Blackbox system configuration allows use of commercial VGA monitors
- Continuous display of tide speed and direction at the three selected depth layers
- Tide speed/direction and ship's track can be plotted on screen for larger area tide observation
- Triple-beam system for less error in tide current detection
- True tide current presentation with external GPS navigator and Gyrocompass inputs at deep water locations
- Water temperature graph helps locate current rip (Temperature sensor required)



The FURUNO CI-88 is a Doppler Sonar Current Indicator designed for every type of fishing vessels and hydrographic survey vessels. The high-definition 10.4" color LCD continuously presents tide speed and direction at three depth layers simultaneously in addition to ship's speed and drift. This variety of current information allows you to predict net shape and plan when to throw your net.

There are six presentation modes: tide vector, ship's speed, echo level, text, track and tide log. Mode selection is simple by pressing the dedicated button. Other menuy settings are also easily made by using the dursor pad or rotary knob. The CI-88 features the unique, user customizable "function button" o shortcut menuy operation. Once you have registered the oftenused function, then just press the dedicated button and then the function window pops up.

The CI-88 has a triple-beam emission system for providing highly accurate current measurement. This system greatly reduces the effects of rolling, pitching and heaving motions, providing a continuous display of tide information.

There are four modes for measurement: ground tracking, water tracking, NAV and Automatic. In the NAV mode, when ground (bottom) reference is not available acoustically in deep water, the Cl-88 can provide true tide current information by receiving position data from a GPS navigator and heading data from a gyrocompass or a GPS compass.

The CI-88 consists of a display unit, a processor unit and a transducer. The control unit and display unit can be installed separately for flexible installation. A BlackBox configuration (without monitor) is also available.

Increase your fishing efficiency by using highly accurate current information



Ship's speed and course

Echograms

Tide vectors for tide differences Layer 1 and 2 Layer 1 and 3

Tide vectors for speed and direction Layer 1, 2 and 3

Water temperature (external temp. sensor required)

14.3 47°

1.6 101

0.7 76

0.4 281

TIDE VECTOR

Tide speed and direction for the three depth layers are displayed with vectors. The depth of each layer can be set manuvally in 1 m intervals. Other information such as tide differential between the reference and one of the two other layers, heading and course can also be displayed in large text.



SHIP'S SPEED

Displays the speed components for foreaft and port-stbd. The synthesized vector (green line) intuitively shows drift direction. The speed source is selectable on the menu from ground tracking or water tracking.

ECHO LEVEL

beam. It helps evaluate

distribution of fish school

Displays echogram

obtained from tach

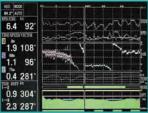
the concentration or

or seabed at three directions simultaneously.



Tide vectors can be shown on the ship's tarck in userspecified intervals.

TRACK



TIDE LOG

Displays the tide information over the past twelve hours.

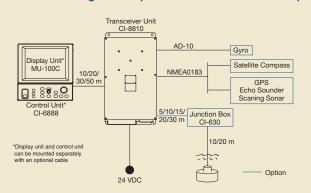


TEXT

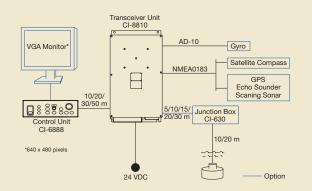
309 2.0^{kt}305 **2.2** 130 0.9"130

INTERCONNECTION DIAGRAM

Standard configuration (with standard LCD monitor)



BlackBox configuration (with custom monitor)



SPECIFICATIONS OF CI-88

Display

10.4" TFT color LCD, 640 x 480 pixels

Measurements

Current

Speed: 0 to 9.9 kt Direction: 0 to 360° Number of layers: 3 layers

Ship

Speed: -10 to 30 kt (fore-aft)

-9.9 to +9.9 kt (port-starboard)

Direction: 0 to 360°

Depth Range

For current measurement

2 to 75% of water depth up to 100 m

(Over 10 m of water depth is required in Ground tracking mode. Over 40 m water depth is required in Water Tracking mode.)

For ground tracking

3 to 200 m

Accuracy

Current: $\pm 2\%$ of ship's speed + 0.2 kt

Ship's speed: $\pm 1\% + 0.1$ kt

Number of Beams

Tilt 50° each

System Frequency 288 kHz

Data Interface (NMEA 0183 Ver.1.5/2.0/3.0, IEC 61162)

Inputs

DBT, DPT (Depth), GGA, GLL, RMA, RMC (L/L), HDG, HDM, HDT (Compass), MTW (Water temperature),

VTG (SOG, COG), ZDA (UTC)

Outputs:

CUR (Water current layer), VBW (Dual Ground/Water Speed), VDR (Set and Drift), VHW (Water speed and heading), VLW (Distance travelled through the water), VTG (SOG, COG)

ENVIRONMENTAL (IEC 60945 test method)

Temperature Display Unit: -15° to +55°

Control Unit: -15° to +55° Transceiver Unit: -15° to +55°

Waterproofing Display Unit: IPX0 (IEC 60529)

Control Unit: IPX2 (IEC 60529) Transceiver Unit: IPX0 (IEC 60529)

POWER SUPPLY

24 VDC, 110 W (TX)

EQUIPMENT LIST

Standard

1. Display Unit MU-100C

2. Control Unit CI-6888 1 unit
3. Transceiver Unit CI-8810 1 unit
4. Transducer CI-8840-1 with 10 m cable 1 unit
5. Thru-hull Pipe for steel hull TFB-5000CI 1 pc
6. Installation materials and spare parts 1 set

Optional

- 1. Junction Box CI-630
- 2. Transducer CI-8840-2 with 20 m cable
- 3. Transducer Tank CI-820/821/822/823
- 4. Cable for Transceiver Junction box Z-6FVNV-SX-C, 5/10/15/20/30 m
- 5. Cable for Display Control Unit 66S1239-0. 5/10 m

Display Unit and Control Unit Transceiver Unit Transducer CI-8810 12.0 kg, 26.5 lb MU-100C and CI-6888 6.0 kg, 13.2 lb CI-8840-1 with 10 m cable 6.1 kg, 13.4 lb CI-8840-2 with 20 m cable 8.9 kg, 19.6 lb 290 11.4" 4-ø12 ø13. 2 280 11.0" 35 11.8 210 88.5 ςi 3.5 300 23.2" 22.3" 327 20.9" 210 8.2 000 6 0.2 590 999 530 ⟨\$; ø10 3.9 171 6.7 R6 98.5 Flush Mount Type 6.0 kg, 13.2 lb R10 320 12.6" 5.0" 153 6.0" 153 6.0" 1.6 336 13.2" **Junction Box** $4 - \emptyset 6.5$ (180 7.1") CI-630 13.2" 2.0 kg, 4.4 lb 6.3 4 160 334 0000 6- ø7 3.9"

Beware of similar products

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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