FURUNO

DOPPLER SPEED LOG

English

Model DS-85 Operator's Guide

This guide provides the basic operating procedures for this equipment. For detailed information, see the Operator's Manual.

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FURUNO

SPD/DIST STW A M
STW
▲ 5.50 kn
DISTANCE
1.11 NM
DISP : NEXT

① BRILL ② DISP ③ MENU ESC ⑦
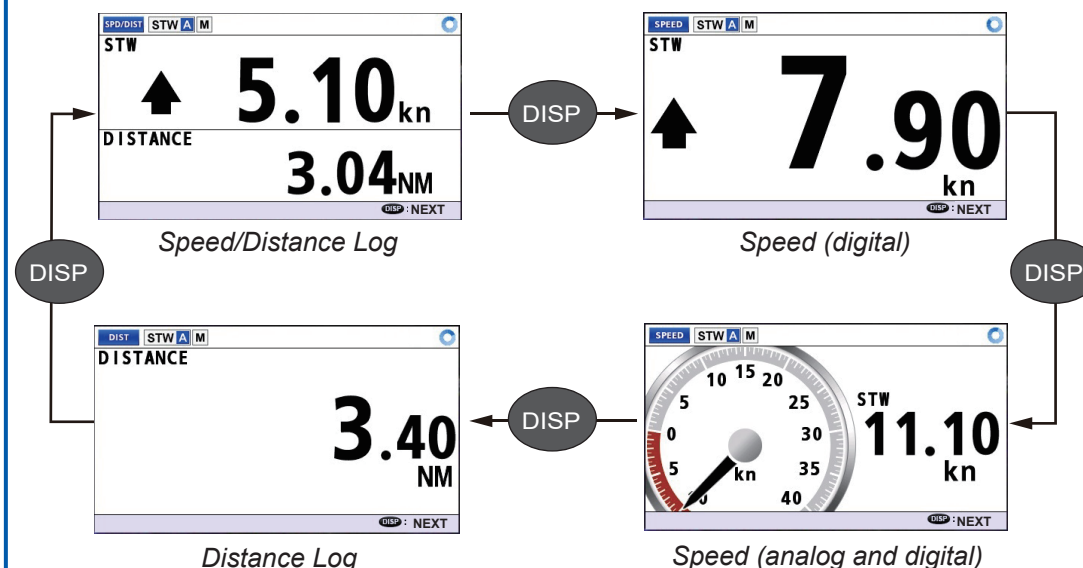④ (power) ⑤ DAY/NT ⑥ ENT

No.	Name	Function
①	BRILL	Shows the brilliance pop-up window.
②	DISP	• Changes the display mode. • Closes all active menu windows and returns to the last used display screen.
③	MENU/ESC	<u>Short press:</u> • Opens/closes the main menu. • Goes back to the main menu from a sub menu. • Closes the settings window and cancels any changes. <u>Long press:</u> • Shows the alert list.
④	POWER	• **Short press**: Turns the power on. • **Long press**: Turns the power off.
⑤	DAY/NT	Switches between Daytime display and Nighttime display.
⑥	ENT	• Opens the menu for the highlighted item. • Applies the settings/options selected.
⑦	CursorPad (◄, ▲, ►, ▼)	• Highlights a menu item/setting. • ▲, ▼: Set numerical value in setting windows. • ◄, ►: Move cursor in setting window.

How to switch screens

SPD/DIST STW A M
STW
▲ 5.10 kn
DISTANCE
3.04 NM
DISP : NEXT

Speed/Distance Log

→ DISP →

SPEED STW A M
STW
▲ 7.90 kn
DISP : NEXT

Speed (digital)

DISP

SPEED STW A M
10 15 20
5 — 25
0 — 30
5 kn 35
0 40
STW
11.10 kn
DISP : NEXT

Speed (analog and digital)

← DISP ←

DIST STW A M
DISTANCE
3.40 NM
DISP : NEXT

Distance Log

DISP

How to switch screens

MENU ESC

Long press

→

SPD/DIST STW A M
LIST:2 LOG <EXPORT> STW ↑15.60kn
	ALERT	TIME [UTC]
!	0211003-1 System failure	11:23 15/NOV/2018
!	0211006 Uncertain STW	10:33 15/NOV/2018

Stop speed measurement for safety.
! 0211003-1 System failure MENU HOLD:LIST C

Alert display

Speed/Distance log display

Display mode

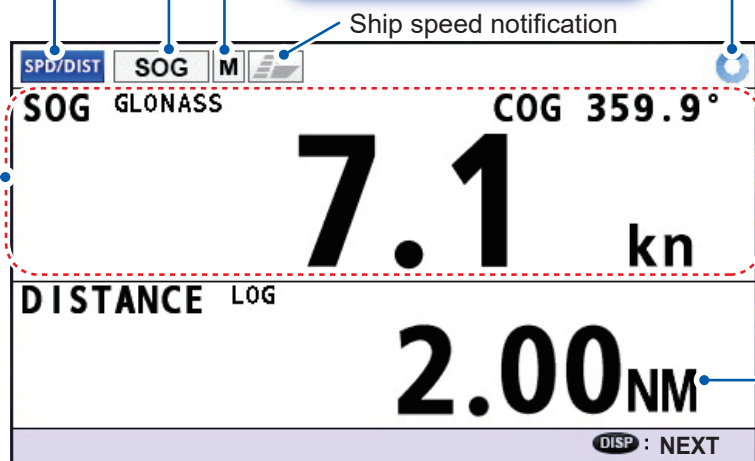| SPD/DIST | : Speed data and distance log. |
| SPEED | : Speed mode |
| DIST | : Distance log |

Speed measurement method

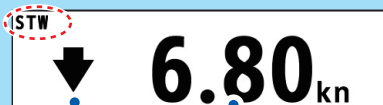| STW | : Speed Through the Water (Doppler calculation). |
SOG	: Speed Over the Ground.
STW A	: Speed Through the Water, automatic selection.
SOG A	: Speed Over the Ground, automatic selection.

Display unit function

| M | : Main display |
| S | : Sub display |

Operational status

Ship speed notification

```
SPD/DIST  SOG  M
SOG  GLONASS              COG 359.9°
        7.1 kn
DISTANCE  LOG
        2.00 NM          DISP : NEXT
```

Distance log

Speed

STW
(Speed Through the Water)

```
STW
▼ 6.80 kn
```

Ship's Speed

Direction in which the vessel is moving
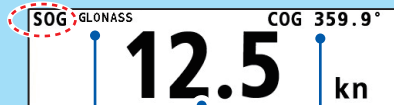
SOG
(Speed Over the Ground)

```
SOG  GLONASS          COG 359.9°
        12.5 kn
```

Geodetic System

Ship's Speed

Course Over the Ground
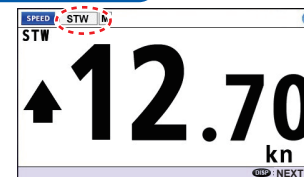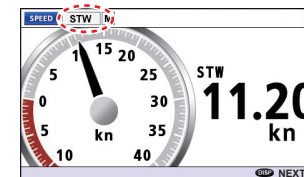
| ▲ | : Forward | ▼ | : Reverse |

Speed display

```
SPEED  STW  M
STW
▲ 12.70 kn     DISP : NEXT
```
Digital speed display (STW)

```
SPEED  STW
STW 11.20 kn   DISP : NEXT
```
Analog/Digital speed display (STW)

```
SPEED  SOG  M
SOG  GLONASS        COG 359.9°
11.8 kn        DISP : NEXT
```
Digital speed display (SOG)
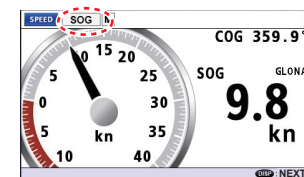
```
SPEED  SOG
COG 359.9°
SOG  GLONASS
9.8 kn         DISP : NEXT
```
Analog/Digital speed display (SOG)

Distance log display
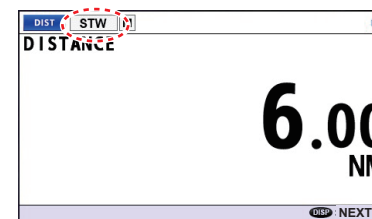
```
DIST  STW  M
DISTANCE
6.00 NM        DISP : NEXT
```
Distance indication (STW)
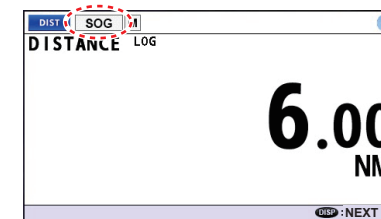
```
DIST  SOG  M
DISTANCE  LOG
6.00 NM        DISP : NEXT
```
Distance indication (SOG)

Alert display

Exports alert list and alert log (for serviceman use).

LIST tab, number of active alerts

Alert icon

Alert title
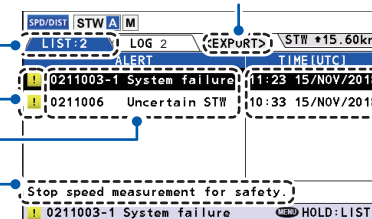
Alert message

```
SPD/DIST  STW A  M
LIST:2    LOG 2   EXPORT   STW ↑15.60kn
                  ALERT              TIME [UTC]
! 0211003-1 System failure    11:23 15/NOV/2018
! 0211006    Uncertain STW     10:33 15/NOV/2018

Stop speed measurement for safety.
! 0211003-1 System failure      HOLD:LIST  C
```

Time, date alert generated. Appears only when time, date are fed from an external navigation device. If there is no external data, "- -" appears.

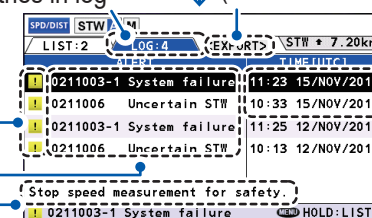Use ◄, ► to switch between the alert log and alert list.

Press the DISP key to close the Alert display.

LOG tab, number of entries in log

Exports alert list and alert log (for serviceman use).

Alert icon

Alert title

Alert message

```
SPD/DIST  STW  M
LIST:2    LOG:4   EXPORT   STW ↑ 7.20kn
                           TIME [UTC]
! 0211003-1 System failure    11:23 15/NOV/2018
! 0211006    Uncertain STW     10:33 15/NOV/2018
! 0211003-1 System failure    11:25 12/NOV/2018
! 0211006    Uncertain STW     10:13 12/NOV/2018

Stop speed measurement for safety.
! 0211003-1 System failure      HOLD:LIST  C
```

Time, date alert generated. Appears only when time, date are fed from an external navigation device. If there is no external data, "- -" appears.