FURUNO

SATELLITE SPEED LOG



FURUNO satellite speed log GS-100 delivers highly accurate speed measurement for safe berthing and docking operations

0.00

0.00km

0.00

0.0kr

- Offers transverse speed at bow and stern position, as well as longitudinal speed
- Provides transverse speed at any position of the ship utilizing the built-in satellite compass
- Delivers roll, pitch and angular information for navigation equipment such as Radar, ECDIS and AIS. Accurate information of ship's attitude contributes to safe and efficient navigation.
- Fully complies with SDME (Speed and Distance Measuring Device) standard (IEC 61023) and THD (Transmitting Heading Device) standard (ISO 22090-3)

125.5

10.00 ft

Φ

+ 14.8

- ▶ 5.7" color LCD
- Compact antenna unit facilitates ease of installation
- ► Simplified menu operation

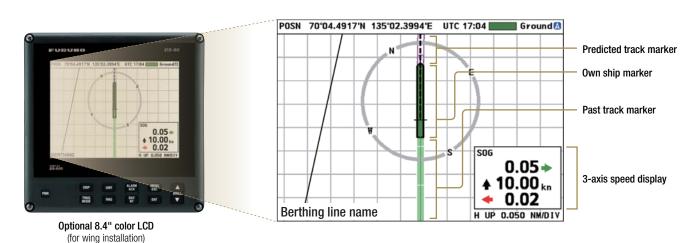
 The operator can navigate through the menu by pressing the cursor or pressing the numeric key associated with the menu items.

Provides speed accuracy of ±0.02 kn

The measurement capability at dead slow speed is vital for precise docking of large ships.

The GS-100 offers speed accuracy of ± 0.02 kn, which is of great help during berthing operations.

Also, an optional 8.4" color LCD for a wing workstation installation gives high-legibility, real-time information in both graphics and alphanumerics.

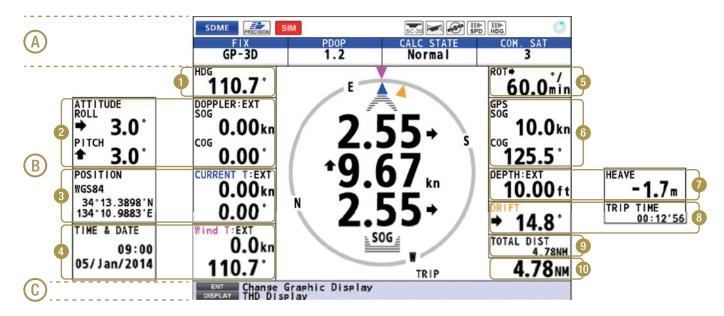


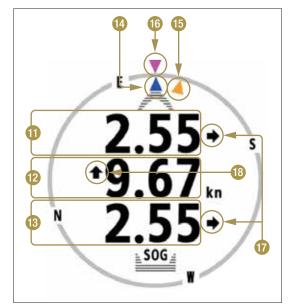
MSC.334 (90) Revised carriage requirement for Speed log

- For ships of 50,000 GT and upwards, 2 separate devices, namely one for STW and one for SOG (2-axis) should be provided.
- Applies to ships constructed on or after July 1, 2014

SATELLITE SPEED LOG

Navigation Display



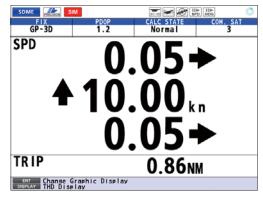


- A Current selected mode (SDME or THD), integrity status and common satellite number, etc. are displayed.
- B This area shows the information specific to the display mode currently selected. Please refer to each of the display modes for details.
- © Guide to currently available actions is displayed.

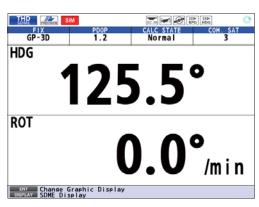
 Under an alert situation, the information about the most imminent alert is displayed.
- 1 Heading
- 2 Roll/Pitch or Doppler measured SOG/COG*
- 3 Position or Current speed/direction*
- 4 Time & Date or Wind speed/direction*
- 5 ROT
- 6 GNSS measured SOG/COG
- Heave or Depth*
- 8 Trip time or Drift angle*
- 9 Total distance
- 10 Trip distance

- 11 Transverse speed at bow position
- 12 Longitudinal speed
- 13 Transverse speed at stern
- 14 Current direction*
- 15 Drift angle*
- 16 Wind angle*
- Bow/Stern velocity ←→
- 18 Heading velocity ↑↓

Text screen



Speed/Trip



Heading/ROT

^{*} displayed with connection of appropriate external sensors

SPECIFICATIONS

Product Name		SATELLITE SPEED LOG				
Accuracy	Speed	at Antenna Unit (satellite: more than 5)	0.02 kn RMS			
		transverse speed at reference position (satellite: more than 5)	0.08 kn RMS			
		satellite: 3 or 4	0.2 kn RMS			
	Trip distance		0.01 NM			
	Attitude (Heading/Pitch/Roll)		0.5° RMS			
	Heave		less than 30 cm			
Resolution	Speed	0.1 kn or 0.01 kn (selectable)				
	Attitude	(
	ROT	0.1°/min or 0.01°/min (selectable)				
Follow-up (Heading/Pitch/Roll)		45°/s				
Settling time			3 min typical (Max. 15 min)			
Receive Frequency			L1: 1575.42 MHz±1.023 MHz			
Receiver Type			C/A code, SBAS			
Position Accuracy		GPS	less than 10 m (2 drms)			
		GPS+SBAS	less than 7 m (2 drms)			
Display			5.7" color LCD			
Interface		IEC 61162-1 IN/OUT	2			
		IEC 61162-1 OUT	1			
		IEC 61162-2 IN/OUT	1			
		Ethernet (IEC 61162-450)	1			
		USB (for maintenance)	1			

POWER SUPPLY

Junction Box	24 VDC: 0.6 A
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ENVIRONMENT

Ambient	Antenna	-25°C to +70°C
Temperature	Display Unit	-15°C to +55°C
Relative Humidity		95 % or less at 40°C
Degree of protection	Antenna	IP56
	Display Unit	IP25
	Junction Box	IP22
Vibration		IEC 60945 Ed. 4

×1

×1

EQUIPMENT LIST

Standard		
1. Antenna Unit	GS-1001	×1
2. Display Unit	GS-1002	×1
3. Junction Box	GS-1003	×1
4. Cable between Antenna Unit and Junction Box		
for Marchant vassal (30/40/50 m)	

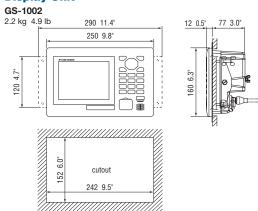
- Cable between Antenna Unit and Junction Box x for Merchant vessel (30/40/50 m) for Recreational boats or Fishing vessel (15/30 m)
- for Recreational boats or Fishing vessel (15/30 m) 5. Cable between Display Unit and Junction Box (for Signal, 6 m)
- Junction Box (for Signal, 6 m)
 6. Cable between Display Unit and Junction Box (for Power Supply, 6 m)
 7. Serial cable (for IEC 61162-1, 5 m)
- 7. Serial cable (for IEC 61162-1, 5 m) x1
 8. Installation Materials x1

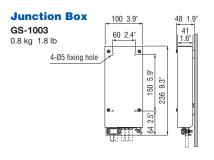
Option

- 1. Interface Unit (for Alarm Monitoring System) IF-2503
 2. Display Unit DS-600
 3. Bird-Repellent Fixture OP20-36
 4. Rectifier PR-62/PR-240
 5. Flushmount Kit OP20-40/41
- 5. Flushmount Kit6. Watertight LAN cable (3 m)
- 7. Serial cable (for IEC 61162-1, 5/10/20 m)
- 8. Serial cable (for IEC 61162-2, 5 m)
- Cable between Antenna Unit and Junction Box for Merchant vessels (30/40/50 m) for Recreational boats or Fishing vessels (15/30 m)

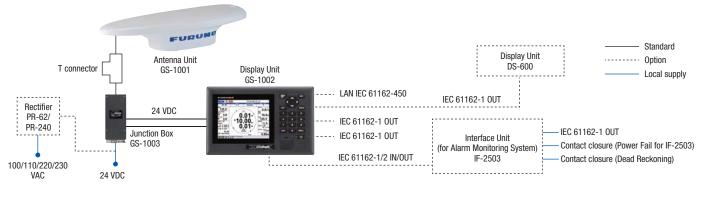
Antenna Unit GS-1001 2.5 kg 5.5 lb 381 15.0" 193 7.6" 160 6.3" 4-M10 141 5.6" 10.0 160 253 685 27.0" FURUNO -160 6.3 303 12.0"

Display Unit





Interconnection Diagram



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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