

## Installation Considerations

Proper antenna placement is important to obtain a high-precision GPS reading. Place the antennas:

- With a clear view of the horizon
- Away from other electronics and antennas
- Along the vessel's centerline

**⚠WARNING:** You must install the primary antenna along the vessel's centerline; you cannot adjust the position readings if the primary antenna is installed off the centerline. Positions are computed for the primary antenna.

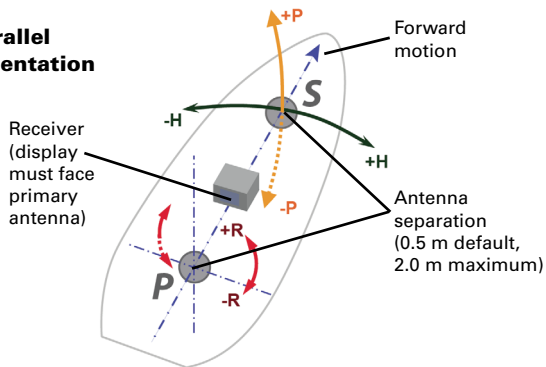
- On a level plane
- At 2.0 m maximum separation, default is 0.5 m
- Away from radio frequencies
- As high as possible

For the best results, orient the antennas so the antennas' connectors face the same direction.

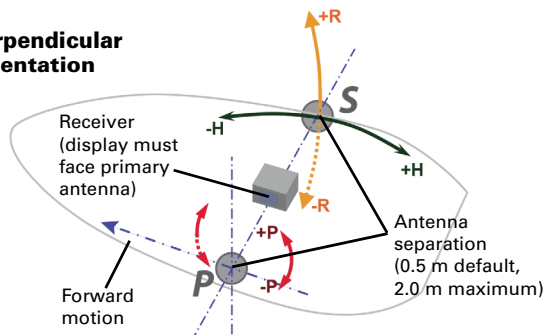
**Note:** In the VS111 kit, install the A30 antenna as the primary antenna as it is used for positioning.

## Mounting Orientation

### Parallel Orientation



### Perpendicular Orientation



## Getting Started

1. Power on the unit.
2. Select **Config Wizard > Use Previous** to use an existing configuration or select **Config Wizard > Proceed Wizard** to create a new configuration.
3. Select the appropriate differential source and communication port settings for new configurations.
4. Change defaults to the aiding features, time constants, and bias only if you are customizing the mounting installation including:
  - Unable to mount the antennas and/or the receiver on a level plane
  - Unable to mount the antennas at a 0° heading or on a level plane
  - Need accurate heading while remaining stationary for long time periods
5. Enter the antenna separation if the antennas were not installed 0.5 m apart. The separation distance must be measured to the nearest centimeter.
6. Enter the desired attitude output (Pitch or Roll).
7. Select **Save to Location** and then select an available location.
8. Select **Config Wizard > Use Previous** to enable the custom settings.



## VS101 and VS111 GPS Compass Quick Reference Guide

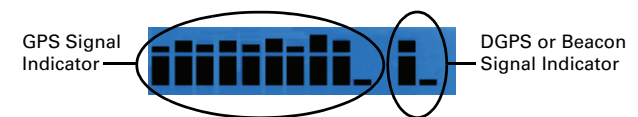
Part Number: 875-0254-000 Rev A1

## Display



**Note:** The power toggle switch and connectors on located on the back of the unit (not shown).

## GPS Status



Each bar represents a distinct satellite and its associated signal quality: the higher the bar, the better the signal.

**Note:** If using autonomous or external correction mode, the DGPS signal indicator will not appear in the display. Differential signal status has no affect on the heading output.

# Menu Map

Vector submenus allow you to view and configure Vector settings. Options vary depending on whether you select Pitch or Roll, and include items such as aiding features, time constants, heading bias, and antenna separation.

## Vector Menu

- Display >
- Aiding Features >
- Time Constants >
- Bias, Neg, Tilt >
- Antenna Sep. >
- Pitch/Roll >
- Back >
- Top Menu >

## DGPS Menu

- Signal Status >
- Satellites >
- Diff > SBAS
- Back >
- Top Menu >

- Signal Status >
- Configure >
- Diff > Beacon
- Back >
- Top Menu >

- RTCM Port > Port A
- RTCM Baud > 19200
- Diff > Extern RTCM
- Back >
- Top Menu >

- No Diff Source
- Diff >
- Autonomous
- Back >
- Top Menu >

The DGPS menu name and options will appear based on the current differential source. The submenus allow you to view your current status or adjust satellites tracked.

## GPS Menu

- Position Status >
- Satellites >
- Configure >
- Back >
- Top Menu >

GPS submenus allow you to view and configure your GPS settings, such as data port outputs, specific positioning parameters, UTC time offset, and satellite visibility and positioning information.

- Vector >
- GPS >
- SBAS >
- Config Wizard >
- System Setup >

## Configuration Wizard Menu

- Proceed Wizard >
- Delete Saved >
- Use Previous >
- Cancel >

- Create New >
- Save Current >
- Back >
- Top Menu >

- Enter Name > A
- Diff > SBAS
- Data PORT A >
- Data PORT B >
- Elev Mask > 5°
- MaxDGPSAge > 3600
- PORT A > 9600
- PORT B > 9600
- Aiding Features >
- Time Constants >
- Bias, Neg, Tilt >
- Ant. Sep > 0.500
- Pitch/Roll > Pitch
- Save To Location >
- Back >
- Top Menu >

The Configuration Wizard setup submenus allow you to set and change configurations.

## System Setup Menu

- Display Apps >
- Display Format >
- Baud Rates >
- Display Logs >
- Software Disp >
- Contrast >
- Animation > Off
- Subscription >
- Flip Display > NO
- Language >
- Back >
- Top Menu >

System setup submenus allow you to quickly view and edit current system settings. General settings include such items as current applications, units, baud rates, logs, LCD contrast, subscription code, display orientation (you can flip the display vertically by selecting "YES" under FLIP DISPLAY), and language.