## Supplied parts

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<th>Lowrance Point-1</th>
<th>Simrad GS25</th>
<th>B&amp;G ZG100</th>
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<td><img src="image1" alt="Antenna" /></td>
<td><img src="image2" alt="Antenna" /></td>
<td><img src="image3" alt="Antenna" /></td>
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<tr>
<td><img src="image4" alt="Support" /></td>
<td><img src="image5" alt="Support" /></td>
<td><img src="image6" alt="Support" /></td>
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<td><img src="image7" alt="Cable" /></td>
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*Attached NMEA 2000 Drop Cable 1.2 m (4 ft) + NMEA 2000 Drop Cable 4.5 m (15 ft)*

*NMEA 2000 Drop Cable 4.5 m (15 ft) + NMEA 2000 Drop Cable 1.8 m (6 ft)*

## Antenna mounting location

1. **Pole mount (external cable)**
   - ![Diagram](image10)
   - ![Diagram](image11)

2. **Pole mount (internal cable)**
   - ![Diagram](image12)
   - ![Diagram](image13)

3. **Surface mount the antenna**
   - ![Diagram](image14)
   - ![Diagram](image15)

4. **Surface mount: Surface cable run**
   - ![Diagram](image16)
   - ![Diagram](image17)
Specifications

**General**
- **Receiver Type**: L1, C/A code, 1.575 GHz; L2 C/A code, 1.602 GHz
- **Channels**: 32 channels
- **Position Update Rate**: Up to 10 Hz (1, 5, 10)
- **Horizontal Accuracy**: ±3 m (9.8 ft)
- **Rate of Turn**: ±3°
- **Pitch/Roll Accuracy**: ±90 degrees, 1 grade error
- **Calibrate**: 15 sec
- **Start-Up Time**: 3 sec
- **Satellite Reacquisition**: 5 sec

**Environmental**
- **Operating Temperature**: -25°C to +60°C
- **Storage Temperature**: -40°C to +85°C
- **Splash Proof**: IPX7
- **Humidity**: 40°C, 93%RH, operating

**Electrical**
- **Input Voltage**: 9 V DC - 18 V DC
- **Reverse Polarity Protection**: Yes
- **Power Consumption**: < 2 watts
- **Current Consumption**: < 100 mA @ 12 V DC
- **Dimensions**: 90 mm (diam) x 38 mm (height)
- **Weight**: 0.14 kg (0.3 lbs) approx

**Power/Data Cable**: NMEA 2000 thru NMEA 2000 network
**Antenna Connector**: NMEA 2000 Micro C
**Mounting**: Flush mount / Standard Pole Mount

**Communications**

- **Data I/O Protocol**: NMEA 2000
- **NMEA 2000 PGNs**
  - PGN Number:
    - 129025: Position, Rapid Update
    - 129026: COG & SOG RU
    - 129029: Position Data
    - 129539: GNS DOP
    - 129540: GNS Satellites in view
    - 127258: Magnetic Variation
    - 127259: Compensated Heading (Vessel Heading)
    - 127261: Rate of Turn
    - 127267: Attitude

**Compliance Statements**

- **Lowrance Point-1, Simrad GS25 and B&G ZG100**
  - Meets the technical standards in accordance with Part 15, 103 of the FCC Rules.
  - Complies with CE/ETL/R&TTE directive 1999/5/EC.
  - Complies with the requirements of level 2 devices of the Radio-communications (Electromagnetic Compatibility) standard 2008. The relevant Declaration of Conformity is available in the following website under model documentation section:
    - http://www.lowrance.com/
    - http://www.simrad-yachting.com
    - http://www.bandg.com

**Heading sensor calibration**

The built-in heading sensor will need to be calibrated before use to compensate for local magnetic fields on your vessel for accurate chart with radar overlay.

**Auto Calibrate mode**

Before the heading sensor calibration is started, make sure there is enough open water around for the vessel to make multiple full turns. The calibration should be done in calm sea conditions and with minimal wind to obtain best results.

- **A** Disconnect then re-connect the sensors NMEA 2000 cable.
- **B** Make two consecutive turns of 360 degrees. The completion of these two turns automatically activates the Auto Calibration procedure.
- **C** Continue with a smooth third turn and a quarter (of at least 390 degrees) within 2 to 5 minutes, to complete the calibration.
- **D** Calibration should be complete. If the time is outside the limits, the calibration is void and the radar overlay may not appear accurate on your chart. Repeat steps A-D again.

**Calibration from a Multifunction Display**

Calibration can be performed from a compatible Multifunction Display, instrument display or autopilot controller. (Please refer to the operator/installation manual.

**Multiple heading sensors on the network**

**WARNING**

If there are two Point-1 units (or an additional heading sensor) on the network, the Point-1 antenna(s) will stop sending heading information.

This does not apply to Simrad GS25 and B&G ZG100.

**Heading sensor application**

This sensor includes an electronic heading sensor to provide chart stabilization, course over ground at low speeds, and overlay of radar on charts.

- **Acceptable performance for the application**
  - A rate stabilized heading sensor such as RC42N will provide the most robust performance for demanding applications.
- **RC42N Rate compass**

- **Point-1**
  - GS25
  - ZG100

- **MARPA**
  - **Radar Overlay**

- **MARPA**
  - **Radar Overlay**

- **MARPA**
  - **Radar Overlay**