LOWRANCE
SIMRAD
B&G

GPS antenna with built-in heading sensor

Installation guide

English



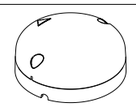
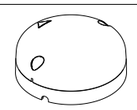
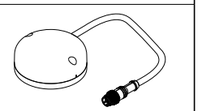
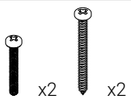
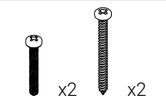
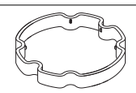
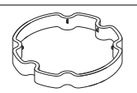
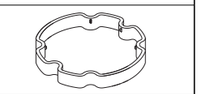
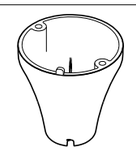
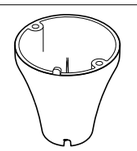
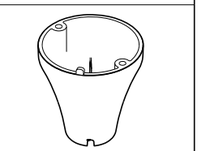
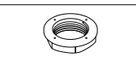
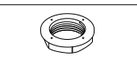
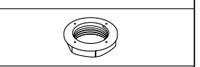
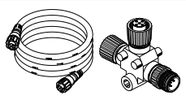
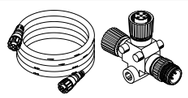
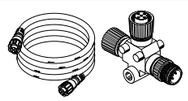
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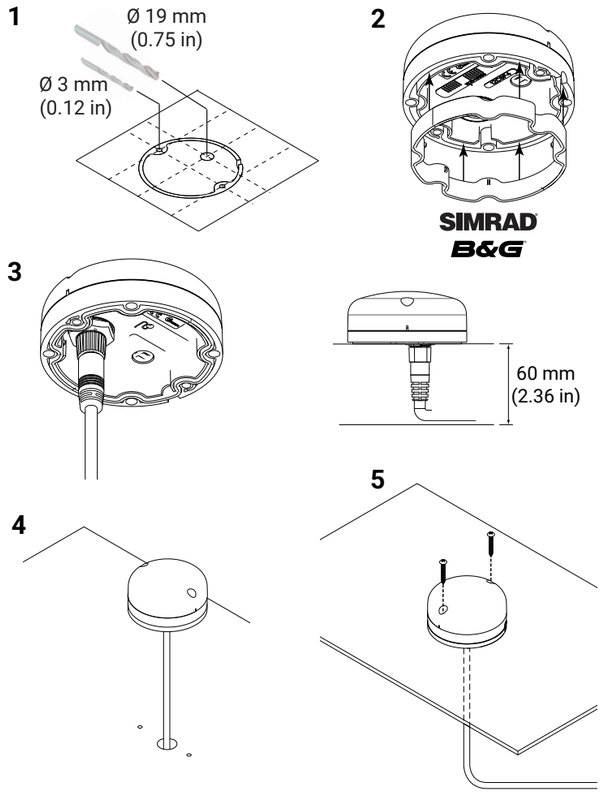
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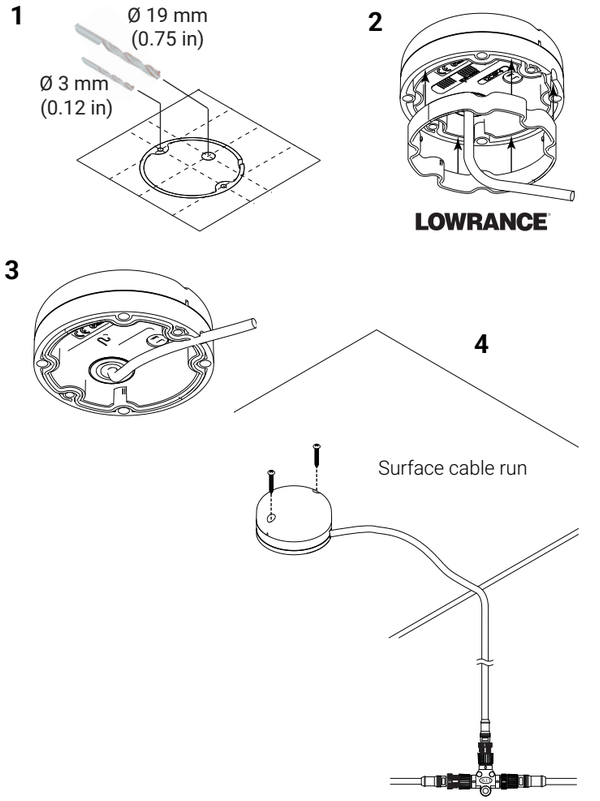
In the box

Simrad® GS25	B&G® ZG100	Lowrance® Point™ 1 Point™ 1 AP
		
 x2 x2	 x2 x2	 x2 x2
		
		
		
		
4.5 m (15 ft) NMEA 2000® drop cable, and NMEA 2000® T-connector	1.8 m (6 ft) NMEA 2000® drop cable, and NMEA 2000® T-connector	Attached 1.2 m (4 ft) NMEA 2000® drop cable, additional 4.5 m (15 ft) NMEA 2000® drop cable, and NMEA 2000® T-connector

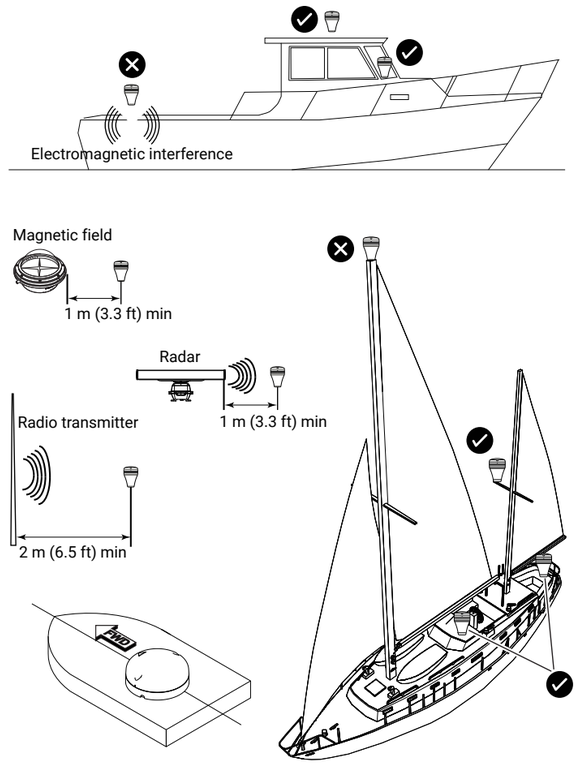
Surface mount (GS25/ZG100)



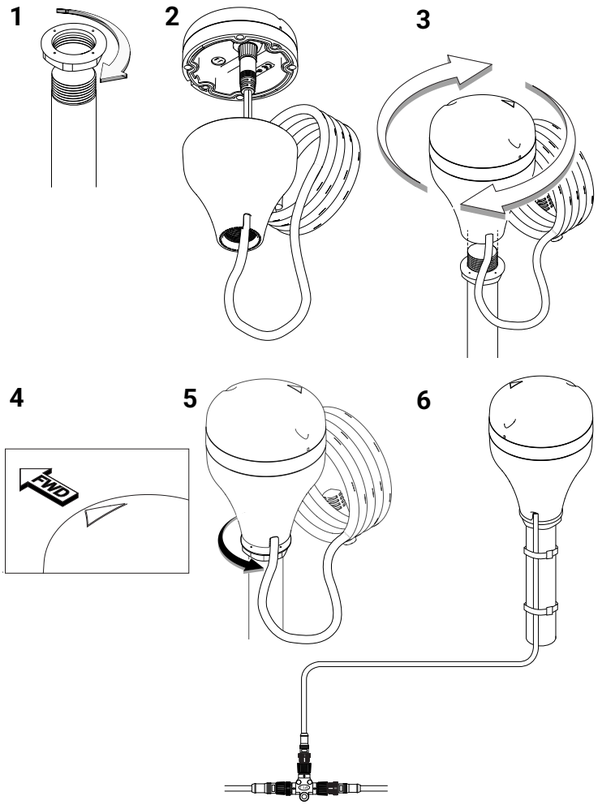
Surface mount (Point™ 1/Point™ 1 AP)



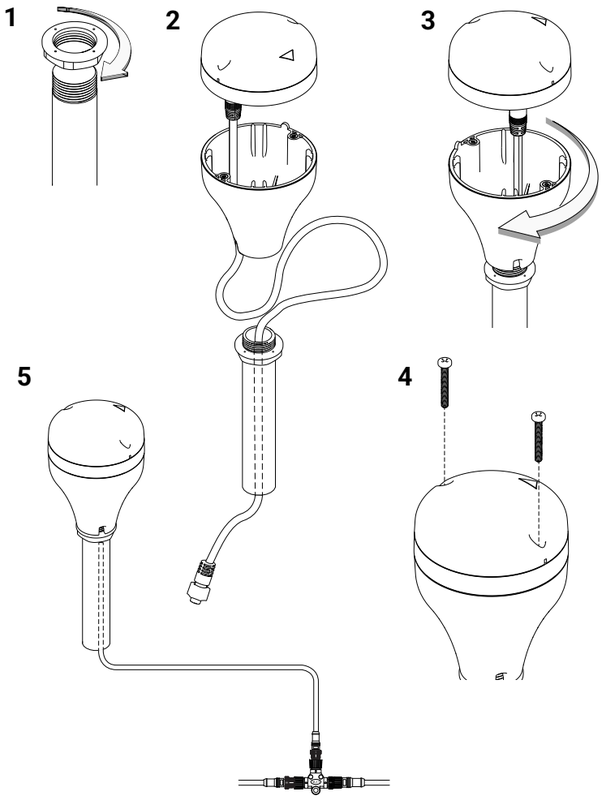
Mounting location



Pole mount (external cable)



Pole mount (internal cable)



Technical specifications

General	
Receiver type	L1, C/A code, 1.575 GHz frequency/L2 C/A code, 1.602 GHz frequency
Channels	32 channels
Position update rate	Up to 10 Hz (1,5,10)
Horizontal accuracy	3 m (9.8 ft)
Heading accuracy	± 3°
Rate of turn accuracy	± 3°
Roll/pitch accuracy at 30°	± 1°
Cold start	50 seconds
Start-up time	3 seconds
Satellite reacquisition	5 seconds
Environmental	
Operating temperature	–25°C to 60°C (–13°F to 140°F)
Storage temperature	–40°C to 85°C (–40°F to 185°F)
Splash proof	IPX7
Humidity	40°C, 93% RH, operating
Electrical	
Input voltage	9 – 16 V DC/<100 mA at 12 V DC
Reverse polarity protection	Yes
Power consumption	< 2 W
Current consumption	< 100 mA at 12 V DC
Dimensions	90 mm (diameter) x 38 mm (height) 3.54 in (diameter) x 1.50 in (height)
Weight (approximate)	0.14 kg (0.3 lb)
Power/data cable	NMEA 2000® thru NMEA 2000® network
Antenna connector	NMEA 2000® Micro-C
Mounting	Flush mount, standard pole mount
Compass safe distance	1 m (3.3 ft)
Communication	
Data I/O protocol	NMEA 2000®
NMEA 2000® PGNs	
PGN number	***PGN title***
126992	System time
129025	Position, rapid update
129026	COG & SOG RU
129029	Position data
129539	GNS DOP
129540	GNS satellites in view
127258	Magnetic variation
127250	Compass heading (vessel heading)
127251	Rate of turn
127257	Attitude

Compliance

The relevant declarations of conformity are available at: **www.lowrance.com**, **www.simrad-yachting.com**, **www.bandg.com**.

Europe
This product complies with CE under the Radio Equipment Directive 2014/53/EU.

UKCA
This product complies with UKCA under The Radio Equipment Regulations 2017.

USA
Warning: The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Australia
This product complies with ACMA according to Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017.

New Zealand
This product complies with RSM according to Radiocommunications (EMC Standards) Notice 2019.

Heading sensor calibration

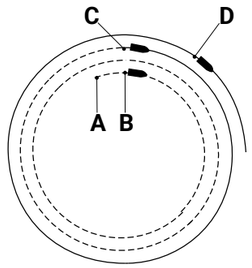
The built-in heading sensor must be calibrated before use to compensate for local magnetic fields on your vessel for accurate chart with radar overlay. Before you begin the calibration, make sure there is enough open water around for the vessel to make multiple full turns. The calibration should be done in calm sea conditions and with minimal wind to obtain best results.

Calibration from a multi-function display

Calibration can be performed from a compatible multi-function display, instrument display or autopilot controller. For more information, refer to the documentation for your display unit.

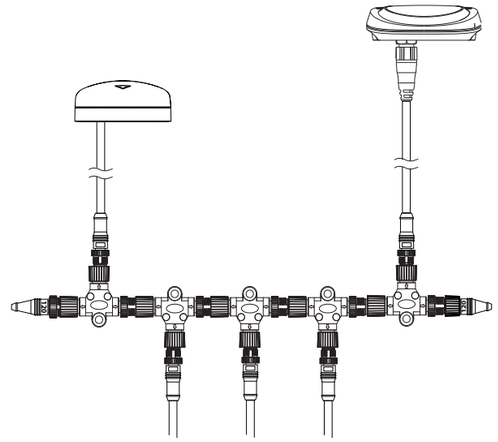
Calibration without a multi-function display

A	Disconnect then reconnect the sensor's NMEA 2000® cable.
B	Make two consecutive turns of 360°. The completion of these two turns automatically activates the calibration procedure.
C	Continue with a smooth third turn and a quarter (of at least 390°) 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** to **D** if calibration fails.

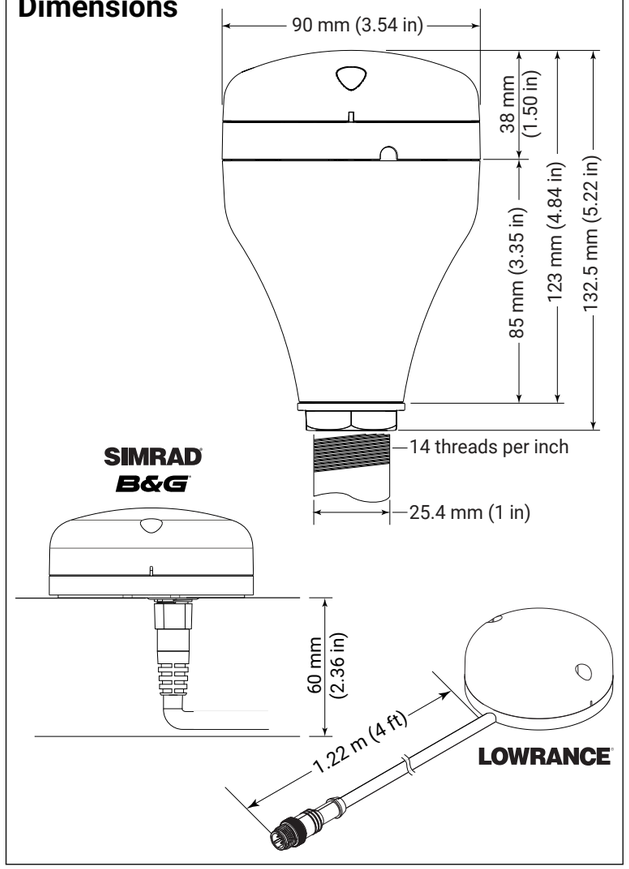


Multiple heading sensors on the network

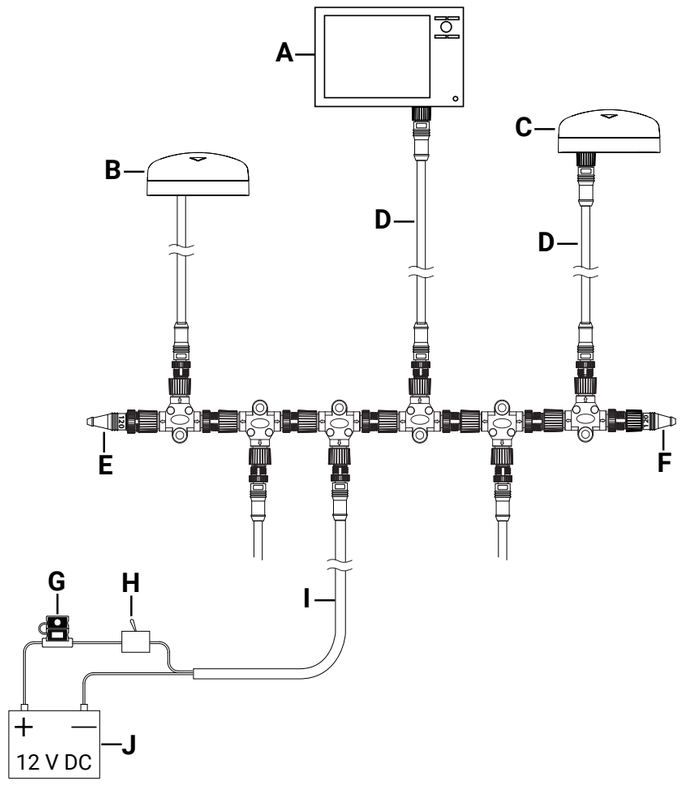
WARNING: By default, when a second device outputting heading is detected on the same network as the Lowrance® Point™ 1/Point™ 1 AP, the Point™ 1/Point™ 1 AP device will stop outputting heading data for simplified source selection.
If the Point™ 1/Point™ 1 AP device is set to instance "1", this detection response is disabled and the Point™ 1/Point™ 1 AP will continue outputting heading data.



Dimensions



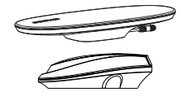
Connection



- **A** Multi-function display
- **B** Lowrance® Point™ 1/Point™ 1 AP with attached 1.2 m (4 ft) cable
- **C** Simrad® GS25 or B&G® ZG100
- **D** NMEA 2000® drop cable maximum length 4.5 m (15 ft)
- **E** 120 Ω terminator (male)
- **F** 120 Ω terminator (female)
- **G** Fuse (5 A)
- **H** Switch
- **I** NMEA 2000® power cable 1.8 m (6 ft)
- **J** 12 V DC power supply

Heading sensor application

Simrad® GS25, B&G® ZG100, and Lowrance® Point™ 1/Point™ 1 AP units include an electronic heading sensor that provides chart stabilization, course over ground at low speeds, and chart with radar overlay.
A rate stabilized heading sensor, such as an HS65™ or Precision™ 9, provides the most robust performance for demanding applications.

	 GS25 ZG100 Point™ 1/ Point™ 1 AP	 HS65™ Precision™ 9
Radar Overlay	✓	✓
MARPA	✗	✓
Autopilot Interfaced™	✗	✓