



Precision-9 Compass

The Precision-9 Compass is designed to supply heading and rate-of-turn information to Simrad autopilot, radar and navigation systems aboard non-SOLAS vessels. Incorporating a nine-axis array of solid-state motion and orientation sensors, the Precision-9 also provides accurate roll, pitch and heave data to compatible equipment via its NMEA 2000® interface. An adjustable mounting bracket and single-cable connection allow simple and cost-effective installation aboard any vessel, including an up-mast mounting option suitable for steel hulls.

NMEA 2000® Heading & ROT Output

With NMEA 2000® output, the Simrad Precision-9 Compass provides heading, Rate Of Turn (ROT), roll, pitch and heave information to connected equipment including autopilot, radar, sonar, multifunction displays, and other navigational systems. This compass is suitable for use aboard non-SOLAS workboats, fishing vessels and other light commercial craft, in applications that do not require an IMO type-approved heading sensor.

Solid-State Sensor Technology

The Precision-9 Compass incorporates a solid-state sensor array based on MEMS technology. This high-precision array measures motion on nine separate axes: heading, heel, trim, roll, pitch, yaw, surge, sway, and heave. Data from all nine axes is used to calculate the most accurate heading and rate-of-turn information possible, avoiding many common limitations of conventional fluxgate electronic compasses and delivering heading accuracy of $\pm 2^\circ$ after calibration.

Mount Almost Anywhere

An easily adjustable mounting bracket and single-cable NMEA 2000® connectivity allow the Precision-9 Compass to be installed on any vessel, in almost any location. The

compass may also be mounted directly to any flat surface without a bracket. On steel hulled vessels where magnetic interference makes bulkhead options unsuitable, an IPX7 waterproof rating allows external up-mast installation.



Main Features:

- NMEA 2000® heading sensor for non-SOLAS vessels
- Heading, Rate Of Turn (ROT), roll, pitch and heave output
- Heading and ROT calculated using sensor data from 9 axes of rotation and motion
- Accurate and reliable solid-state sensor technology
- Heading accuracy of $\pm 2^\circ$ after calibration
- Easily adjustable mounting bracket allows deck, bulkhead or up-mast installation
- IPX7 waterproof for external up-mast mounting on steel hulled vessels
- Simple installation with a single NMEA 2000® connection

Technical specifications overleaf.



Technical Specifications

► TECHNICAL/ENVIRONMENTAL	
Mounting	Bulkhead or mast
Operating Temperature	-25 °C to 65 °C / -13 °F to 149 °F
Operating Temperature Stored	-30 °C to 70 °C / -22 °F to 158 °F
Waterproof rating	IPX7
Housing	Plastic
Product Width	119 mm / 4.69 in
Product Depth	119 mm / 4.69 in
Product Height	36 mm / 1.42 in
Product Weight	0.4 kg / 0.9 lb
► OTHER	
Compass Safe Distance [mm]	0.5 m / 1.7 ft
► POWER	
Power Consumption	0.4 W
Power Supply	8 – 6 V DC via NMEA 2000®
NMEA 2000 Load Equivalency Number	1 network load
► INFORMATION	
Heading Accuracy	±2 degrees after calibration
Repeatability	±1.0 degrees (or better)
Pitch/Roll Angle	±45 degrees

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