

Simrad RC25 Autopilot Rate Compass

Overview

The RC25 is a combined rate sensor (gyro) and magnetic fluxgate compass used as the primary heading source for Simrad autopilot systems (AP50, AP35, AP20/21/22). It provides a rate-stabilized heading output to improve autopilot steering performance.

Physical & Electrical Specifications

- Weight: ~0.9 kg (2 lbs)
- Power consumption: ~0.9 W
- Interface: Robnet network bus
- Cable: Supplied with ~15 m (49 ft) Robnet cable
- Enclosure: Marine-rated, IP56
- Material: White ABS housing

Environmental Specifications

- Operating temperature: 0 to +55 deg C (32 to 130 deg F)
- Storage temperature: -30 to +70 deg C (-22 to 158 deg F)
- Mounting: Deck or bulkhead, level and free from magnetic interference

Performance & Autopilot Integration

- Automatic calibration activated by the autopilot control head on power-up
- Heading output: Rate-stabilized heading via Robnet to autopilot
- Accuracy: Typically <1.25 deg RMS after calibration
- Repeatability: High (<0.2 deg RMS)
- Compatible with Simrad AP50, AP35, AP20/21/22 series

Notes

- Keep clear of engines, large metal masses, and magnetic interference
- Autopilot menus must select RC25 as heading source
- Compass stabilizes in ~30 seconds; full calibration may take ~10 minutes