

Simrad Gyrocompass series



**RGC50
Gyrocompass**



**GC80
Gyrocompass**



**GC85
Gyrocompass**



**Wheelmark
approved**


- IMO
- 2000 HSC code
- 2 Year Warranty

Complete Gyrocompass series - for all vessel applications...



SIMRAD
GYRO
COMPASS

New unique technology Gyrocompasses GC80 and GC85 eliminates the need for annual service. The small, compact "all in one" RGC50 Gyrocompass is designed for smaller vessels and non-IMO applications. The all new GC80 and GC85 are fully IMO approved for standard and High Speed Craft (GC85) and can be configured in a dual gyrocompass system. The highest possible accuracy and stability is provided by the new technology, fully sealed sensitive element.

IMO Approved 

System flexibility

The most flexible Gyrocompass on the market, for installation, configuration and cost. A wide range of control units provide complete flexibility of system configuration for new installation and easy retrofit into existing repeater systems. The standard range of interfaces can easily be expanded to provide signals for all vessel applications.

The distribution of power and heading signals from the control units enables practical installation and easy retrofit.



An Azimuth circle for use on the bearing repeaters and a full range of accessories is available.

Control units



Compact



Expanded



Dual



- Accurate heading information for all on-board navigation instruments



AR81 repeater.



AR80 repeater.



Digital repeaters DR76.



IS15 Compass and
IS15 Multi.

Remote Control

Remote control panel for flush mounting away from the Control unit, i.e. in the dash board. All control panels are fully dimmable, showing data from main and backup gyrocompasses.



Remote control.

Choose the right repeater

A full range of analog and digital repeaters are available for all vessel applications. Analog, digital and bearing repeaters can be used with all Simrad gyrocompasses. All repeaters are water resistant for external use.

Unique sensitive elements

- Unique new technology sensitive elements requires no annual servicing
- No oil change and quick installation!
- Sealed sensitive element
- Very low RPM reduces wear, increasing lifetime
- High follow-up rate
- Swappable sensitive elements for on-board service
- Full 2 year warranty

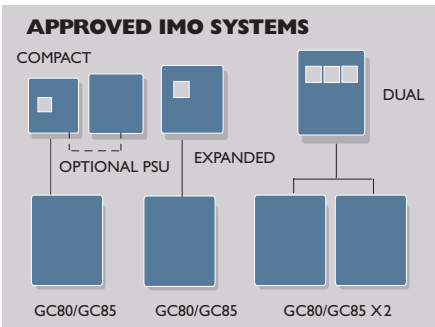
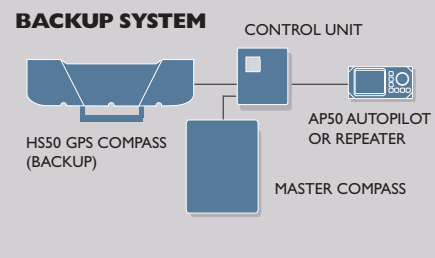
Self contained, maintenance free, sensitive element.



Sensitive element.



A Simrad HS50 GPS compass can also be used as an extra back-up in a system.



Total redundant heading reference system




Using the New Simrad 80 series it is possible to configure a fully redundant system. Complete backup of heading information to autopilots, radar etc. from a second heading source. No interruption to operation.

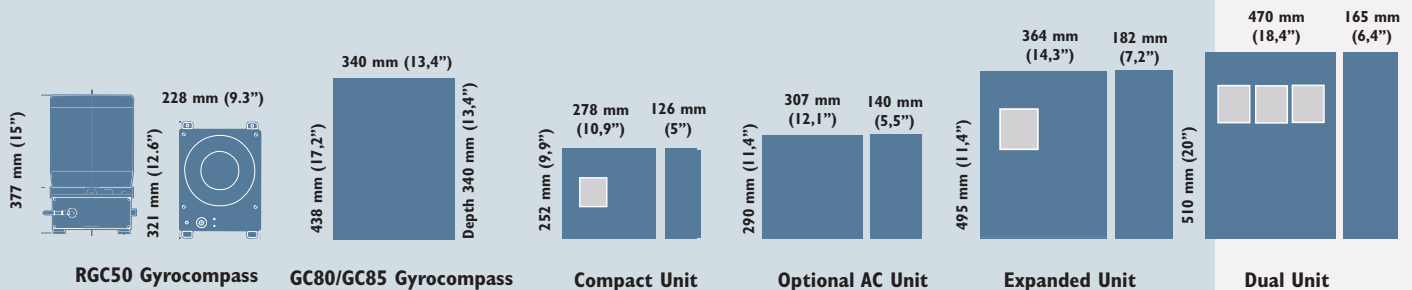


The gyro system is perfect for High speed ferries and Workboats.

Specifications

| |  |  |  |  |
|--|---|---|---|---|
| General data | RGC50 Gyrocompass | GC80 Gyrocompass | GC85 Gyrocompass | HS50 GPS Compass |
| Setting time: | < 4h | < 3h | < 3h | 3 min |
| Pitch/Roll angle: | +/- 45 deg | +/- 45 deg | +/- 45 deg | +/- 30 deg |
| Follow-up rate: | > 36 deg/sec | > 75 deg/sec | > 75 deg/sec | > 80 deg/sec |
| Weight: | 15.5 kg | 23 kg | 23 kg | |
| Type approval: | | Wheelmark IMO: A424 (XI), A694 (17) IEC: 60945, 61162 ISO: 8728 (1997) | Wheelmark IMO: MSC97 (73), 13.2.6 (2000 HSC Code) IEC: 60945, 61162 ISO: 6328 (2001) | Approved according to THD standard by DNV and BSH |
| Accuracy | | | | |
| Settle point error (x secant latitude): | Less than -1.8 deg | Less than -0.1 deg | Less than -0.1 deg | |
| Static error (x secant latitude): | Less than -1.0 deg | Less than -0.1 deg | Less than -0.1 deg | Less than 0.3 deg |
| Dynamic error (x secant latitude): | Less than -1.8 deg | Less than -0.4 deg | Less than -0.4 deg | Less than 0.5 deg |
| Horizontal acceleration: | | 1m/s ² | 2m/s ² | |
| Range of speed correction: | | 0 -50 knots | 0 -70 knots | Not required |
| Annual maintenance: | Not required | Not required | Not required | Not required |
| MTBF: | 30.000 | 35.000 | 35.000 | |
| Warranty period: | 2 years | 2 years | 2 years | 2 years |

| |  |  |  |  |
|----------------------------------|---|--|---|---|
| Data outputs | RGC50 | Compact | Optional AC, (power supply for Compact) | Expanded |
| Stepper: | 1 * I | 1 x 24V | 4 x 24V (option 2 x 35V) | 4 (option 2 x 35V) |
| Serial (NMEA): | 1 * I | 4 (option 9) | 10 (option 15) | 10 (option 15) |
| Syncro: | 1:1 100V/400Hz | | | |
| Repeater back-up: | | 1 + 4 | 4 + 10 | 4 + 10 |
| Rate of turn: | | | 3 | 3 |
| Weight: | | 7 kg | 9 kg | 16 kg |
| Data inputs | | | | |
| Serial (GPS): | | I | I | I |
| Serial (External Heading): | | I | I | I |
| Serial (LOG): | | I | I | I |
| Pulse (LOG): | | I (200/400 p p/nm) | I (200/400 p p/nm) | I (200/400 p p/nm) |
| Power | | | | |
| Power supply: | 24V DC | 24V DC | 110/220V AC 50/60Hz | 110/220V AC 50/60Hz |
| Backup supply: | | 3.3A | 24V DC | 24V DC |
| Current consumption startup (A): | 5A | 2.6A | 1.4A incl. Compact | 1.5A |
| Current consumption normal (A): | 2A | | 1.1A incl. Compact | 1.2A |



Specifications subject to change without notice

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A KONGSBERG Company