

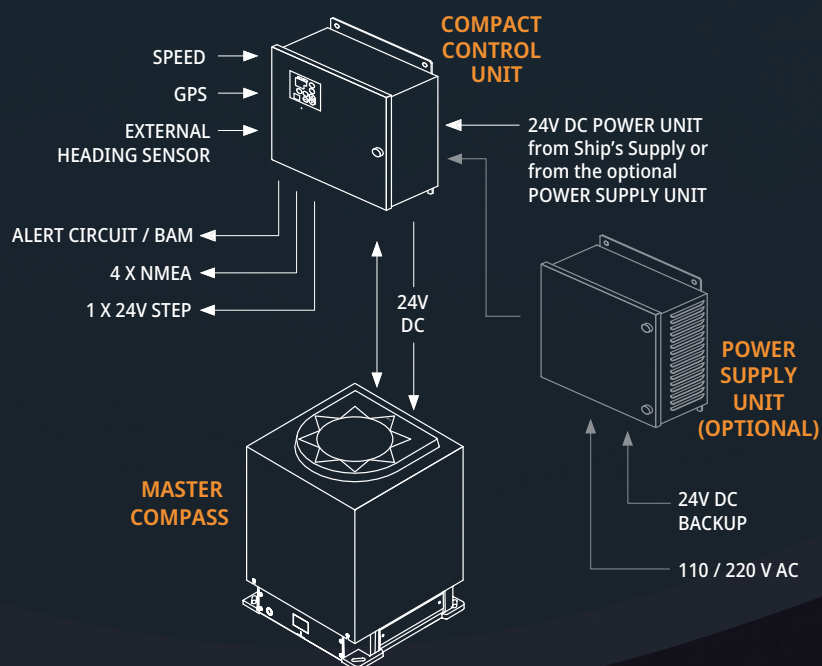
**SIMRAD®**

# GC80/GC85

## Compact Gyro System MK2

GC80 and GC85 Compact MK2 Gyro compasses have been designed for any size of vessels to enhance the navigational capabilities and reliability.

The Gyro compasses eliminate the inconvenience and limitations of magnetic compasses, and provide a variety of electrical outputs to supply accurate and consistent heading information to other navigational equipment.



GC80 is made for standard vessels, while GC85 meets the requirements for High-Speed Craft (HCS) classed vessels.

Utilizing the same Controller and Master Compass for both systems, with only difference being the sensitive element allows a technician to get familiar with both systems with no independent training required.

# Key Features

- Fully sealed sensitive elements that require no annual servicing, and are swappable for on board service
- Low RPM reduces wear and increases lifetime
- No annual oil change required –virtually maintenance free
- High follow-up rate
- Wide range of control unit options provide complete flexibility of system configuration for new installations and easy retrofit into existing heading distribution and repeater systems.
- IMO approved for standard (GC80) and High Speed Craft (GC85)

# Specifications

Accuracy Settling time	within 3 hours (If startup heading is within $\pm 5^\circ$ of actual heading)
Settle point error:	less than $\pm 0.3^\circ$
RMS value of the difference	less than $0.1^\circ$
Repeatability of settle point error	less than $\pm 0.2^\circ$
Roll and pitch error	less than $\pm 0.5^\circ$ less than $\pm 0.1^\circ$
Static error	less than $\pm 0.1^\circ$
Settle point error under general conditions	less than $\pm 0.5^\circ$
GC85 Speed and acceleration error	less than $\pm 2.0^\circ$
Follow-up speed (follow-up system)	$> 75^\circ/\text{sec}$
Gimbal freedom for both roll and pitch	$\pm 45^\circ$

Range of speed correction:	0-50 knots (GC80) / latitude ( $0^\circ - +70^\circ$ ) 0-70 knots (GC85) / latitude ( $0^\circ - +70^\circ$ )
Main power supply	24V DC
Power supply for alarm and backup	24V DC 70 W
Voltage fluctuation	DC -20% - +30%
Power consumption	Start: 3.3A at 24V DC Running: 2.6A at 24V DC
Repeater type	24 V DC – 6 step/ $^\circ$
Number of step repeater connections	1
Number of NMEA connections	4
Repeater backup circuits	1+4

# Global Service



Our Service and Support hotlines are available 24/7/365.

Comes with:

- 2 Year Warranty
- Extended Warranty Options
- Global Service Network
- 2 Year OnBoard Support\*
- 24 Hour Replacement\*

\*Applies to certified vessels only

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