

GDL HGD-100 Flexible Talker

Solid-State Digital Gyro Repeater | Flexible NMEA Talker Support | English Edition

1. PRODUCT OVERVIEW

GDL HGD-100 is a next-generation digital gyrocompass bearing repeater with a 7-inch round LCD and a solid-state, gearless and motorless design. It displays heading data from a master gyrocompass or NMEA line in real time while supporting flexible NMEA talker identifiers.

2. INTELLIGENT FEATURES

- 360-degree precision dial with clear 10-degree tracking.
- User-selectable dial colour and small, medium or large numeral fonts.
- Flexible talker and automatic mode detection: supports talker IDs including HE, AG, II and GP. The unit interprets the sentence command independently of the talker prefix; *HDT selects T / True and *HDG selects M / Magnetic.
- Magnetic heading is read digitally from the NMEA HDG sentence; no direct analogue compass connection is used.
- Three-button control with direct brightness adjustment outside the menu.
- RS-422 / RS-232 support, 4800 / 9600 / 38400 baud and 9-36V DC supply.

3. TECHNICAL SPECIFICATIONS

PARAMETER	TECHNICAL DETAIL / VALUE
Model	GDL HGD-100 Flexible Talker
Display	7-inch round LCD indicator
Dial	Full 360-degree segmentation with 10-degree markings
Mechanical design	Fully digital solid-state; no gears or motors
Input protocol	NMEA 0183; all talker IDs supported: \$--HDT, \$--HDG, \$--ROT, \$--THS and similar
Talker flexibility	Processes HDT and HDG correctly regardless of the sentence talker ID
Display customization	Dial colour and small / medium / large 10-degree numeral font
Automatic mode	T with *HDT data; M with *HDG data
Magnetic compass integration	Digital NMEA \$--HDG input; no direct analogue connection
User interface	Three ergonomic buttons
Dimmer	Direct brightness adjustment outside the menu
Physical interface	RS-422 / RS-232
Communication speeds	4800 / 9600 / 38400 bps
Operating voltage	9-36V DC
Compatibility	Standard NMEA 0183 gyrocompass and NMEA HDG transmitting devices