

## GPS & Heading Products

### G2183



#### GPS Sensor

- WAAS/EGNOS GPS
- Provides latitude, longitude, COG, SOG, time and date, and magnetic variation
- IPX6 waterproof enclosure
- Outputs NMEA 0183 and NMEA 2000® data simultaneously

### H2183



#### Heading Sensor

- Better than 1° heading accuracy in static conditions
- Best-in-class 2° heading accuracy in dynamic conditions
- Three-axis solid-state compass provides heading data
- Three-axis accelerometer provides pitch and roll data
- Three-axis rate gyro provides rate-of-turn data
- Only recreational heading sensor that uses a three-axis rate gyro
- Compass calibration can be easily done on any display or PC
- Easily mounts on any angled bulkhead
- IPX6 waterproof enclosure
- Default 10 Hz update rate for heading
- Outputs NMEA 0183 and NMEA 2000® data simultaneously

### GH2183



#### Heading Sensor with GPS

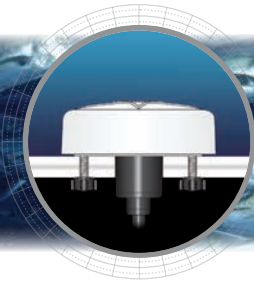
- GPS and heading combined into one housing
  - Saves installation time and money
- Better than 1° heading accuracy in static conditions
- Best-in-class 2° heading accuracy in dynamic conditions
- Three-axis solid-state compass provides heading data
- Three-axis accelerometer provides pitch and roll data
- Three-axis rate gyro provides rate-of-turn data
- Only recreational heading sensor that uses a three-axis rate gyro
- Compass calibration can be easily done on any display or PC
- Perfect product for metal hulled boats
- WAAS GPS provides latitude, longitude, COG, SOG, time and date, and magnetic variation
- IPX6 waterproof enclosure
- Outputs NMEA 0183 and NMEA 2000® data simultaneously

## GPS & Heading Products

- Outputs NMEA 0183 and NMEA 2000® data simultaneously
- Same cable and connector options for all models
- OEM specific housing covers available



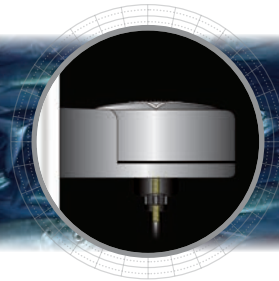
# G2183



## SPECIFICATIONS

**Supply Voltage:** 9 VDC to 16 VDC  
**Supply Current:** <190 mA  
**GPS Satellites Tracked:** 12-channel (maximum)  
**WAAS/EGNOS Satellites Tracked:** 2-channel (maximum)  
**GPS Position Accuracy:**  
 3 m (10') with WAAS (95% of the time, SA off)  
**GPS-Fix Update Rate:** 1x per second  
**Cold Start Acquisition:** 52 seconds  
**Warm Start Acquisition:** 37 seconds  
**NMEA 2000 Load Equivalency Number (LEN):** 5  
**Certifications/Standards:** CE, IPX6, RoHS, IEC60945

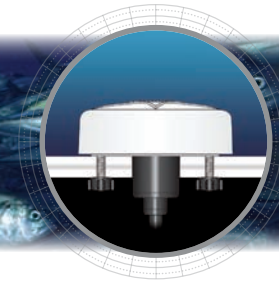
# H2183



## SPECIFICATIONS

**Static Compass Accuracy:** 1° RMS when level  
**Dynamic Compass Accuracy:** 2° RMS (Best-in-Class)  
**Heading Display Resolution:** 0.1°  
**Settling Time:** 1 second (adjustable)  
**Heading Data Output Update Rate:**  
 —10 Hz—NMEA 0183  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Rate-of-Turn Range:** 0° to 70° per second  
**Rate-of-Turn Accuracy:** 1° per second  
**Rate-of-Turn Data Output Update Rate:**  
 —2 Hz—NMEA 0183 (Adjustable up to 10 Hz)  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Pitch and Roll Range:** ±50°  
**Static Pitch and Roll Accuracy:** <1°  
**Dynamic Pitch and Roll Accuracy:** <3°  
**Pitch and Roll Display Resolution:** 0.1°  
**Pitch and Roll Boat Alignment:** Yes (with software)  
**Pitch and Roll Data Output Update Rate:**  
 —2 Hz—NMEA 0183 (Adjustable up to 10 Hz)  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Supply Voltage:** 9 VDC to 16 VDC  
**Supply Current:** <140 mA  
**NMEA 2000 Load Equivalency Number (LEN):** 3  
**Certifications/Standards:** CE, IPX6, RoHS, IEC60945

# GH2183



## SPECIFICATIONS

**Static Compass Accuracy:** 1° RMS when level  
**Dynamic Compass Accuracy:** 2° RMS (Best-in-Class)  
**Heading Display Resolution:** 0.1°  
**Settling Time:** 1 second (adjustable)  
**Heading Data Output Update Rate:**  
 —10 Hz—NMEA 0183  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Heading Variation:** Yes  
**Rate-of-Turn Range:** 0° to 70° per second  
**Rate-of-Turn Accuracy:** 1° per second  
**Rate-of-Turn Data Output Update Rate:**  
 —2 Hz—NMEA 0183 (Adjustable up to 10 Hz)  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Pitch and Roll Range:** ±50°  
**Static Pitch and Roll Accuracy:** <1°  
**Dynamic Pitch and Roll Accuracy:** <3°  
**Pitch and Roll Display Resolution:** 0.1°  
**Pitch and Roll Boat Alignment:** Yes (with software)  
**Pitch and Roll Data Output Update Rate:**  
 —2 Hz—NMEA 0183 (Adjustable up to 10 Hz)  
 —Adjustable up to 20 Hz—NMEA 2000®  
**Supply Voltage:** 9 VDC to 16 VDC  
**Supply Current:** <90 mA  
**Power:** 1,100 mW  
**GPS Satellites Tracked:** 12-channel (maximum)  
**WAAS/EGNOS Satellites Tracked:** 2-channel (maximum)  
**GPS Position Accuracy:**  
 3 m (10') with WAAS (95% of the time, SA off)  
**GPS-Fix Update Rate:** 1x per second  
**Cold Start Acquisition:** 52 seconds  
**Warm Start Acquisition:** 37 seconds  
**NMEA 2000 Load Equivalency Number (LEN):** 2  
**Certifications/Standards:** CE, IPX6, RoHS, IEC60945

