

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

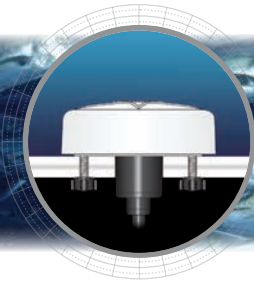
- GPS and heading combined into one housing
 - Saves installation time and money
- Better than 1° heading accuracy in static conditions
- Best-in-class 2° heading accuracy in dynamic conditions
- Three-axis solid-state compass provides heading data
- Three-axis accelerometer provides pitch and roll data
- 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



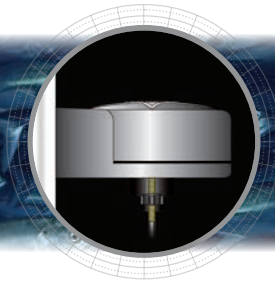
G2183



SPECIFICATIONS

Supply Voltage: 9 VDC to 16 VDC
Supply Current: <190 mA
Operating Temperature Range: -25°C to 55°C (-13°F to 131°F)
Storage Temperature Range: -30°C to 70°C (-22°F to 158°F)
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

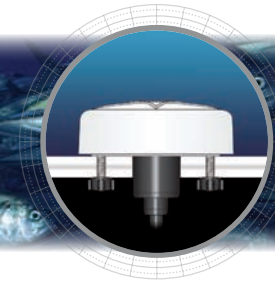
H2183



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
Operating Temperature Range: -25°C to 55°C (-13°F to 131°F)
Storage Temperature Range: -30°C to 70°C (-22°F to 158°F)
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 60 VDC
Supply Current: <90 mA (@ 12 VDC)
Power: 1,100 mW
Operating Temperature Range: -25°C to 55°C (-13°F to 131°F)
Storage Temperature Range: -30°C to 70°C (-22°F to 158°F)
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

