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

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

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

AIRMAR
TECHNOLOGY CORPORATION
Sensing Technology
www.airmar.com
**G2183**

**Supervoltage**: 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)  
**NMEA 2000 Load Equivalency Number (LEN)**: 5  
**Certifications/Standards**: CE, IPX6, RoHS, IEC60945

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**H2183**

**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  
**Pitch and Roll Range**: ±50°  
**Pitch and Roll Accuracy**: <1°  
**Static Pitch and Roll Accuracy**: <1°  
**Dynamic Pitch and Roll Accuracy**: <3°  
**Pitch and Roll Display Resolution**: 0.1°  
**Pitch and Roll Display 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

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**GH2183**

**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  
**Pitch and Roll Range**: ±50°  
**Pitch and Roll Accuracy**: <1°  
**Static Pitch and Roll Accuracy**: <1°  
**Dynamic Pitch and Roll Accuracy**: <3°  
**Pitch and Roll Display Resolution**: 0.1°  
**Pitch and Roll Display 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 (@ 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)  
**NMEA 2000 Load Equivalency Number (LEN)**: 2  
**Certifications/Standards**: CE, IPX6, RoHS, IEC60945

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GPS_Heading_Products_PC_F 02/15/10  
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