G2183

Reliable Position Accuracy

The G2183 is a high-accuracy, WAAS/EGNOS, GPS antenna. It is one of the first **true** 10 Hz GPS antennas available. It scores high in superior sensitivity for quick signal acquisition, reliable position accuracy, and accurate speed and course-over-ground readings. The G2183 can connect to either NMEA 0183 or NMEA 2000® networks or both simultaneously. It features a compact size that is easy to flush-mount, pole-mount, or rail-mount. The G2183 is designed for all marine environments, as the IPX6 waterproof housing can withstand virtually any condition Mother Nature can give.

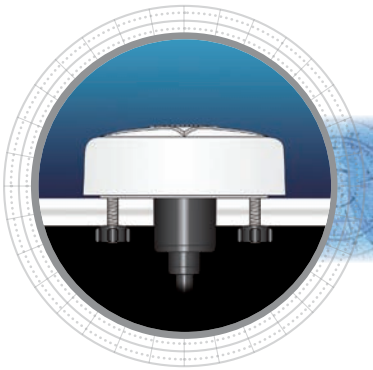
10 Hz
GPS Sensor

Features

- WAAS/EGNOS GPS with 3 m (10') accuracy
- Up to 10 Hz rapid position update rate
  —User selectable from 1 Hz to 10 Hz
- Provides:
  —Latitude and Longitude
  —Course Over Ground (COG)
  —Speed Over Ground (SOG)
  —Time and Date
  —Magnetic Variation
- Outputs NMEA 0183 and NMEA 2000® data simultaneously
- IPX6 waterproof enclosure
- Available as a combination GPS/Heading Sensor (GH2183)

AIRMAR® TECHNOLOGY CORPORATION
Sensing Technology

www.airmar.com



G2183

Technical Information

SPECIFICATIONS

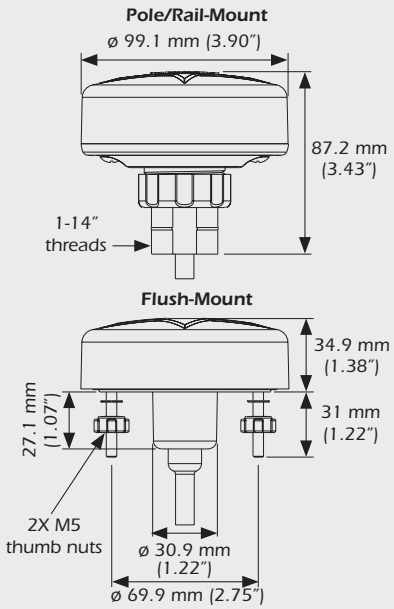
Supply Voltage: 9 VDC to 40 VDC
Supply Current: <90 mA
Power: 800 mW
Operating Temperature Range: -30°C to 55°C (-22°F to 131°F)
Storage Temperature Range: -30°C to 70°C (-22°F to 158°F)
GPS Satellites Tracked: 14-channel (maximum)
GPS Satellites Acquired: 51-channel (maximum)
WAAS/EGNOS Satellites Tracked: Any available channel
GPS Position Accuracy: 3 m (10') with WAAS (95% of the time, SA off)
GPS-Fix Update Rate: Up to 10 times per second (user selectable)
Cold Start Acquisition: 60 seconds
NMEA 2000® Load Equivalency Number (LEN): 2
Certifications and Standards: CE, IPX6, RoHS, IEC60945 (Pending)

DATA OUTPUT PROTOCOL

NMEA 0183 RS422 Sentence Structure
$GPGGA ..... GPS Fix Data
$GPGLL..... Geographic Position—Latitude and Longitude
$GPGSA..... GNSS DOP and Active Satellites
$GSGSV..... GNSS Satellites in View
$GPRMC ..... Recommended Minimum Specific GNSS Data
$GPVTG..... Course Over Ground and Ground Speed
$GPZDA..... Time and Date

NMEA 2000® Supported PGNs
127258..... Magnetic Variation
129025..... Position and Rapid Update
129026..... COG and SOG, Rapid Update
129029..... GPS Position Data
129033..... Time and Date
129538..... GNSS Control Status
129539..... GNSS DOPs
129540..... GNSS Sats in View

DIMENSIONS



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Sensing Technology

RoHS COMPLIANT

ISO CERTIFIED CE