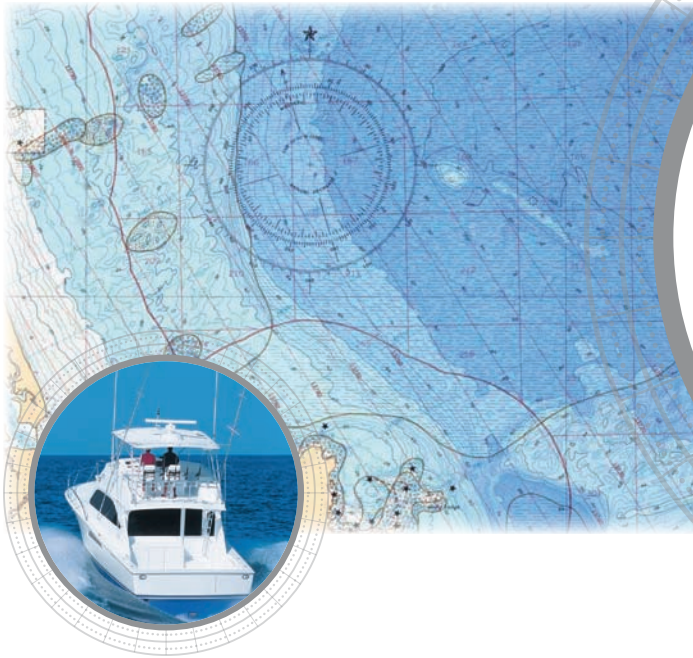


G2183



Reliable Position Accuracy

The G2183 is a high-accuracy, NMEA, WAAS/EGNOS, GPS antenna. 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 both NMEA 0183 and NMEA 2000® networks that may be installed on the vessel, as the unit outputs both protocols 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 throws at it.

GPS Sensor

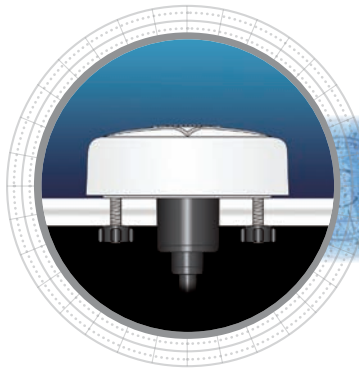
Features

- WAAS/EGNOS GPS with 3 m (10') accuracy
- 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)



Sensing Technology

www.airmar.com



G2183

Technical Information

SPECIFICATIONS

Supply Voltage: 9 VDC to 16 VDC
Supply Current: <190 mA
GPS Satellite 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: 1 x per second
Cold Start Acquisition: 52 seconds
Warm Start Acquisition: 37 seconds
NMEA 2000® Load Equivalency Number (LEN): 5
Certifications and Standards: CE, IPX6, RoHS, IEC60945

DATA OUTPUT PROTOCOL

NMEA 0183 Sentence Structure

\$GPDTM Datum Reference
 \$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
 129044 Datum
 129538 GNSS Control Status
 129539 GNSS DOPs
 129540 GNSS Sats in View
 129541 GPS Almanac Data

DIMENSIONS

