

# G2183



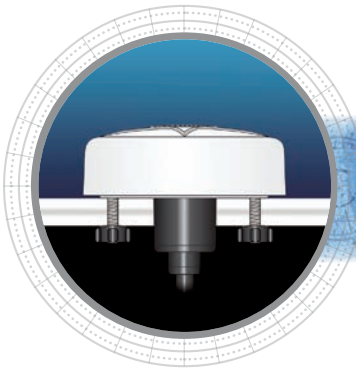
## Reliable Position Accuracy

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)



## Technical Information

### SPECIFICATIONS

- 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
- Supply Voltage:** 9 VDC to 16 VDC
- Supply Current:** 190 mA

### 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

