

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

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

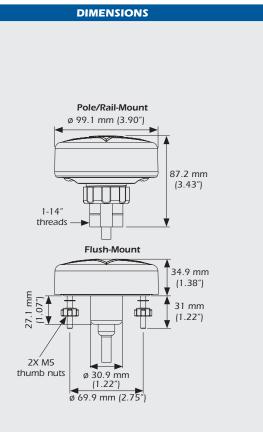
DATA OUTPUT PROTOCOL

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







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