

ComNav®



RC3 Rate Compass

Accurate Heading & Rate of Turn Data

- Better than 1° heading accuracy in static conditions
- 2° heading accuracy in dynamic conditions
- Heading Display Resolution: 0.1°
- ≤10Hz standard heading update rate NMEA 0183; user selectable to maximum ≤20Hz NMEA 2000®
- 3-axis solid state compass for stabilized heading
- 3-axis accelerometer provides pitch and roll data
- 3-axis rate gyro provides rate of turn data
- Easily mounted on any angle bulkhead
- Easy calibration using ComNav autopilots
- Fully compatible with NMEA 0183 and NMEA 2000® instruments: Radar, Chart plotter, Autopilots
- Outputs NMEA 0183 and NMEA 2000® data simultaneously
- Optional G3 color display
- IPX6 rated
- CE certified
- RoHS compliant
- 2-year warranty
- Worldwide Service Network



Commercial



Engineering



SPECIFICATIONS:

Static Compass Accuracy:	<1° RMS
Dynamic Compass Accuracy	<2° RMS
Heading Display Resolution:	0.1°
Settling Time:	1 second
Heading Data Output Update Rate:	10Hz NMEA 0183 Adjustable up to 20Hz NMEA 2000®
Rate-of-Turn Range:	0° to 70° per second
Rate-of-Turn Accuracy:	1° per second
Output Update Rate:	2Hz NMEA 0183 Adjustable up to 10Hz Adjustable up to 20Hz NMEA 2000®
Pitch and Roll Range:	±50°
Static Pitch and Roll Accuracy:	<1°
Dynamic Pitch and Roll Accuracy:	<3°
Pitch and Roll Display Resolution:	0.1°
Pitch and Roll Boat Alignment:	Yes with software
Pitch and Roll Data Output Update Rate:	2Hz NMEA 0183 Adjustable up to 10Hz Adjustable up to 20Hz NMEA 2000®

DATA OUTPUT PROTOCOL

NMEA 0183 Sentences

\$HCHDG:	Heading, Deviation, and Variation
\$HCHDT:	Heading Relative to True North*
\$TIROT:	Rate of Turn
\$YXXDR: Transducer Measurements:	Vessel Attitude

*Requires external GPS Input

NMEA 2000® Supported PGNs

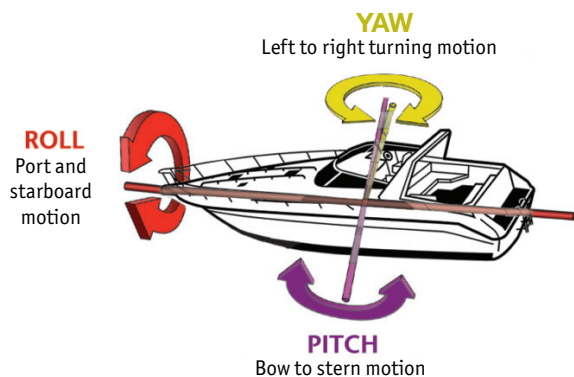
127250:	Vessel Heading
127251:	Rate of Turn
127257:	Attitude

POWER

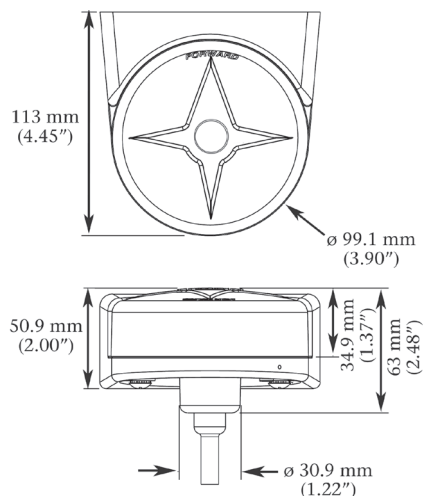
Input Voltage:	9 to 16 VDC
Current:	<140 mA
LEN:	=5
Operating Temperature Range:	-25°C to 55°C (-13°F to 131°F)
Storage Temperature Range:	-30°C to 70°C (-22°F to 158°F)

COMPLIANCE

CE, IPX6, RoHs, IEC60945



DIMENSIONS: 113mm x 63mm W x H
4.45" x 2.48" W x H



ACCESSORIES:

- Select 10m cable NMEA 0183 standard with system or 6m cable NMEA 2000® with system
- Mounting Bracket & Hardware included
- Gasket for Compass Mount included

ComNav®



ISO 9001

ComNav Marine Ltd.

#15-13511 Crestwood Place,
Richmond, British Columbia • Canada • V6V 2G1

Phone: 604-207-1600 • Fax: 604-207-8008

E-mail: sales@comnav.com

www.comnav.com

Worldwide Service

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Represented by:

Specifications subject to change without notice