

ComNav[®]



RC3 Rate Compass

Accurate Direction & Rate of Turn for Vehicle Guidance

- 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
- Easy mounting
- Easy calibration
- Fully compatible with NMEA 0183 and NMEA 2000® instruments
- Outputs NMEA 0183 and NMEA 2000® data simultaneously
- CAN-based NMEA 2000® interface
- Optional G3 color display
- IPX6 rated
- CE certified
- RoHS compliant
- 2-year warranty
- Worldwide Service Network



Energy



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:	Vehicle Attitude

*Requires external GPS Input

NMEA 2000® Supported PGNs

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

CAN bus interface

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

ComNav®



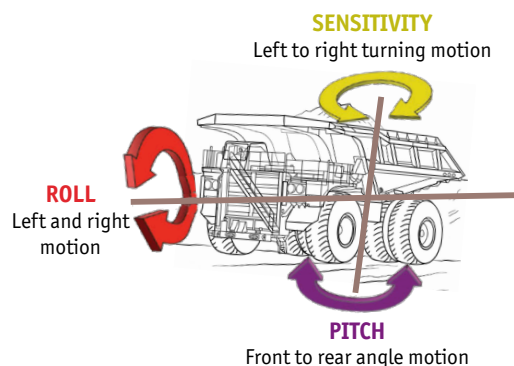
ISO 9001

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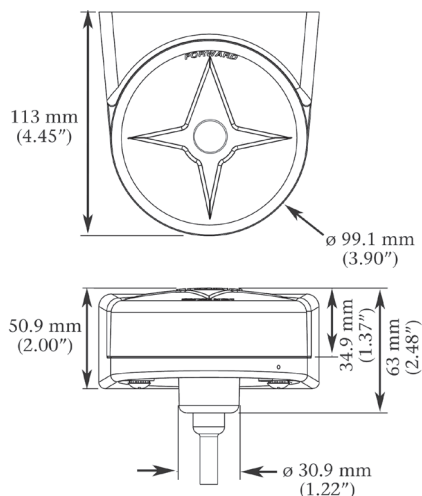
www.comnav.com

Worldwide Service

Printed in Canada



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

Represented by:

Specifications subject to change without notice