

Other CruzPro Products

- Depthsounder, Fishfinder, Active Transducers
- Speed/Log/w Water Temperature Display
- DC Volts/Amps/Amp-Hour Monitors
- AC Volts/Amps/Frequency/kW Monitor
- LPG/Petrol Gas Detectors/Alarms
- Bilge Water Detector/Alarms & Pump Controllers
- Windlass Controller/Chain Counter
- Digital Fuel Gauge/Consumption Calculator
- Smart and Manual Alternator Regulators
- Marine Security System
- RPM/Engine Hours/Elapsed Time Gauge
- Digital Oil Pressure Gauge/Alarm
- Digital Water Temperature Gauge/Alarm
- Digital Amps Gauge
- 3 Bank Digital Volts Gauge/Alarm
- Digital Clock/Watch/Race Timers/Alarms
- 8 and 16 Amp Light Dimmers
- Battery Voltage Monitors/Alarms
- Solar Panel Charge Controllers
- 4 & 8 Channel NMEA Combiners/RS-232 Convertors
- Engine/Exhaust Temperature Monitor/Alarm

Full details at <http://www.cruzpro.com>
Email to: info@cruzpro.com

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CruzPro® SOG-2



Integrated
GPS/antenna and Paddlewheel
Speed Pulse Converter

Operation

When powered on, the the built-in GPS inside the SOG-2 will take a few moments to lock onto the available sattelites and output both GPS data on screw terminal C and output analog paddle wheel speed pulses on screw terminal B.

The SOG-2 replaces a thru-hull or transom mount paddlewheel speed transducer and provides Speed Over the Ground in place of Speed Through the Water.

No more cleaning of paddlewheels to remove marine growth or weeds.

Provides a more accurate estimate of time to get to your destination since it is not affected by water currents and provides a resolution of 0.01 knots from 0.00 to 65.00 knots.

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Introduction

The SOG-2 is a small electronic module with an internal GPS and GPS antenna that outputs NMEA 0183 serial GPS data and also creates an analog paddlewheel speed signal that can be used by speed logs in place of a paddle wheel speed transducer.



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NOTES

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http://www.cruzpro.com Made in New Zealand

Specifications

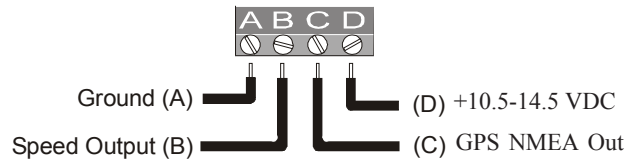
- Power supply:** 10.5 to 14.5 VDC, .04 amps nom.
- Operating temperature:** 32 to 122 F (0 to 50 C)
- Size:** 1.5" x 2.4" x 1.5" deep (35mm x 60mm x 37 mm)
- Range:** 0.00-65.00 knots (0.01 knot resolution)
- Speed Output:** 22,000 pulses per nautical mile
- Sample GPS NMEA 0183 Data Output:**

\$GPRMC,040113,A,3653.10,S,17437.47,E,
000.6,074.4,190903,*,*03

UTX Time, Latitude, Longitude, Speed Over
Ground (knots), Course Over Ground, Date
(dd/mm/yy).

Installation

ALL WIRES AWG
18 - 22 GAUGE (0.6 - 1.0 mm)



Wire the SOG-2 as shown above. The module should be mounted on a vertical surface with a screw through the hole at the top of the module. The GPS patch antenna at the top of the module faces UP and will have the best view of the sky. The GPS receiver is very sensitive and should work well even when mounted below deck. It is not waterproof and should be protected from rain. On metal boats the module should be mounted near a window with a view of the sky.