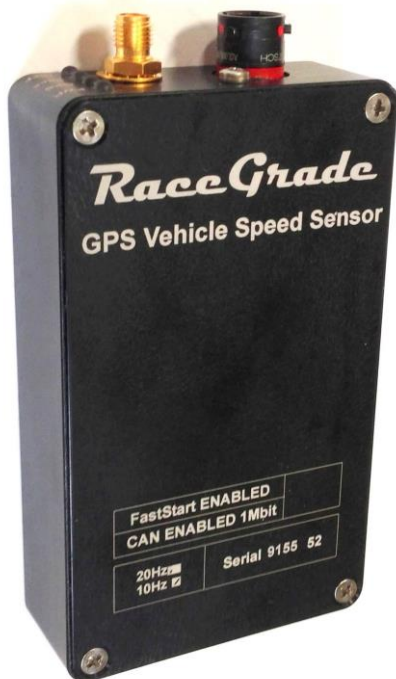


<b>Document Number</b>		RG_SPEC-0001	
<b>Title</b>		RaceGrade GPS	
<b>Revision</b>	<b>Date</b>	<b>Prepared By</b>	<b>Change History</b>
2.2	10/16/2013	Steven Bravek	Potted with RaceGrade RaceGel

## Introduction

This GPS device provides a true non-interpolated 10 Hz or 20 Hz output enclosed in a motorsport quality aluminium case. The new improved version is smaller and lighter. It incorporates a foam seal to protect it from the environment and floating circuit board design to be more vibration resistant. Is also potted with RaceGrade RaceGel for improved resistance to vibration and the environment. The connections are now all on the top surface to improve flexibility in mounting arrangement. The main connector was changed to utilize a smaller, lighter and more common Autosport connector.



### Specifications:

- 12-channel GPS engine.
- Horizontal accuracy < 0.7 meter at 95% with DGPS
- Update rate of 10 Hz or optional 20 Hz.
- Screw on SMA antenna connector.
- Supply Voltage: 6 to 18 VDC
- Current Consumption: 380 mA at 12v
- Temperature Range: -30° to 70° C
- Weight: 230 grams w/o antenna
- Dimensions: 3.95 x 2.35 x 0.9 in, 100 x 60 x 23 mm
- Potted with Racegrade RaceGel for improved resistance to vibration and environment.

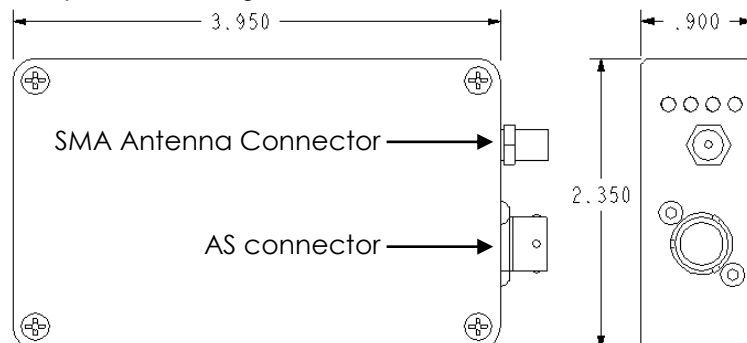
### Output Streams:

- RS-232 serial at 57600 baud rate formatted NMEA GGA and RMC messages. Others baud rates or message types available upon request.
- CAN output for MoTeC devices (bus speed is 1 Mbit/s)

### Connection:

Mating connector: ASL 606-05SN

- pin 1 – Ground
- pin 2 – RS-232 Tx
- pin 3 – 12 volt supply
- pin 4 – CAN Low
- pin 5 – CAN High



Dimensions in inches