



Overview

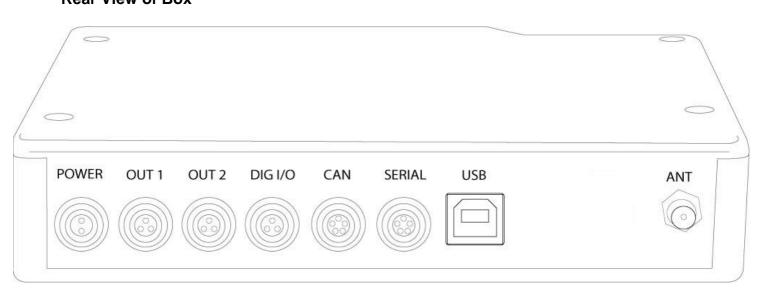
The VBOX is a powerful instrument used for measuring the speed and position of a moving vehicle. It is based on a new generation of high performance satellite receivers, and will measure acceleration figures, braking distances, lap times, cornering forces and much more. Due to the small size and simple installation procedure, the VBOX is ideally suited for use in cars, bikes, off road vehicles and boats.



Features

- Non-contact speed and distance measurement using GPS
- **CAN Bus interface**
- **USB** Interface
- RS-232 serial interface
- SD Card support
- Analogue speed outputs
- Digital speed outputs
- Digital input/output
- **OLED Screen display**
- Front panel configuration

Rear View of Box





Specification

0.1 Km/h (averaged over 4 samples)
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Km/h or Mph
20 Hz
1000 Mph
0.1 Km/h
0.01 Km/h
0.05% (<50cm per Km)
Metres / Feet
20Hz
1cm
6 Metres 95% CEP**
2 Metres 95% CEP**
3m 95% CEP**
1.8m 95% CEP**
40cm 95% CEP**
20cm 95% CEP**
20 Hz
1 cm
0.01°
0.1°
0.01 s
0.01 s
0.05 s
0.05 s
0.5%
20 G
0.01 G
20Hz
SD Card 1
Dependant on SD capacity. Approx 4.3 megabytes per hour used while logging all GPS channels.



Outputs

CAN Bus

Bit rate 125 Kbit/s 250Kbit/s ,500Kbit/s & 1Mbit/s selectable

baud rate

Identifier type Standard 11bit 2.0A

Data available Satellites in view, Latitude, Longitude, Velocity,

Heading, Altitude, Vertical velocity, Distance, Longitudinal acceleration & Lateral acceleration, Distance from Trigger, trigger Time, Trigger Velocity

Analogue

Voltage range 0 to 5Volts DC

Default setting * 0.0125Volts per Km/h (0 to 400Km/h)

Accuracy 0.1 Km/h @ 100Km/h

Digital

Frequency range DC to 44.4Khz

Default setting * 25Hz per Km/h (0 to 400Km/h)

Accuracy 0.01Km/h @ 100Km/h

Power

Input Voltage range 6-18v DC

Current Typically 560mA

Environmental and physical

Weight Approx 500 grammes

Size 154mm x 112mm (decreasing to 99mm) x 30mm

Operating temperature -30°C to +60°C Storage temperature -40°C to +85°C

Definitions

** CEP = Circle of Error Probable 95% CEP (Circle Error Probable) means 95% of the

time the position readings will fall within a circle of the

stated diameter



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^{*} The range settings can be adjusted by the user in software