

1Hz SAT SPEED - GPS-SPEED-01

GPS Ground Speed Technology

GPS Antenna mounts on the roof of the vehicle



Radar Signal Ground Speed Output

Green light indicates sufficient satellites for ground speed output

General Specifications

Radar Signal Connector: AMP 4 Pin CPC

GPS Receiver Update Rate: 1 Hz

GPS LED: Solid green light indicates sufficient number of satellites for ground speed reading.

Electrical Specifications

Operating Voltage: 12 Volts DC

Radar Signal Out: 12 Volt Square Wave

AMP 4 Pin CPC Wiring: Pin 1 Ground, Pin 2 Radar Signal, Pin 3 & 4 + 12 VDC Power

Ground Speed Calibration Constants

Land Manager, CMS100, CCS100, PM300, TSM10, Seed Manager SE.....	7775
PM3000, SC1000, GC1000.....	1340
ASM412, PM24, IntelliAg.....	12750

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Installation

- The SAT-SPEED mounting location should have a clear unobstructed view of the sky on all sides.
- Avoid overhead metal structures that can block the satellite signals.
- Mount the SAT-SPEED at the highest point of the vehicle with the black dome pointing directly at the sky.
- Be aware of shed door openings and make sure the SAT-SPEED is safe from impact from fixed structures.
- Avoid mounting in areas with excessive vibration, as SAT-SPEED may produce ground speed errors.
- The SAT-SPEED can be mounted to any flat metal surface, such as the roof on a vehicle cab.
- If your vehicle does not have a metal roof, then attach the metal plate enclosed with the SAT-SPEED.
- Carefully route the cable into the vehicle and connect to your monitor or controller.

Calibration

Before running the calibration you must power up the SAT-SPEED with the vehicle parked out in the open, away from trees and sheds for approximately 45 minutes to acquire all the satellite signals and store them in memory. This procedure is only required once at the initial startup. From then on when the tractor is started up it will take approx, 40 seconds to find the satellites and start outputting a ground speed signal to the monitor or controller.

After installing the SAT-SPEED your monitor or controller will need to perform a ground speed calibration. Follow the procedure outlined in the monitor or controller instructions that is typical for calibrating a radar ground speed sensor.

Operation

Lights up solid GREEN when more than 4 satellites are connected - Ground Speed Output OK