

GPS Speed Input Module

Converts GPS Speed signal to a pulsed digital output (0-12v).
Default output is 5000 pulses per kilometre.

Installation

Install GPS Antenna in a position that has a clear view of the sky and route the cable to the installation location of the module. Wire the supplied 3 position connector as per table below. Secure module with mounting screws or cable ties being careful not to flex the enclosure which may force the internal calibration button to be held on.

Termination		
Pin #	Colour	Connection Description
1	Red	Power (+12V) - From a 12V switched source
2	Green	Signal Output - From module connect to spare SPI / DPI on ECU
3	Black	Battery Ground- Connect to ground source



Status LED

The Status LED indicates the current status of the module:

- LED off : Module has no power connected or is in calibration mode
- Flashing Red: No GPS Signal
- Steady Green = GPS signal ok, Vehicle is stationary
- Flashing Green = GPS signal ok, Vehicle in motion



NSP Software Setup and Calibration

Setting up the GPS module in the NSP software can be done through the Navigation Tree under Sensors > Vehicle Speed:

- Set the Main Source drop-down menu to GPS, and enable the GPS Speed Input. Disable any other sensors you're not using (e.g. Drive Train Sensor).
- Navigate to Vehicle Speed > Wiring, then assign the connection to the SPI or DPI the module is wired to. Set Edge Select to Falling, Sensor Type to Hall Effect, and Pull-up to Disabled.

Edge Select

Falling

Sensor Type

Hall Effect

Pull Up

Disable

- Calibrating the module within NSP is done on the main Vehicle Speed sensor page. Manually type 5000 pulses/km (the default output) into the configuration box for the GPS Input, then press the Tab key. Do not press the Calibrate button, as this will reset the calibration to whatever the module is currently sending out.

GPS Input

5000

Pulses/km

Calibrate

Calibration Mode - GPS Speed Input Module (Optional)

The default output frequency is 83 Hz / 5000 PPK at 60 km/h, but the module can be recalibrated to change the output frequency if needed. This procedure can also be used to verify the output. To do this, follow the steps below:

- Power on the unit, then press the internal button through the hole on the underside of the unit, or by pressing the case at that point.
- Hold the button down for 10 seconds. The LED will turn off, and the output will start pulsing. The current frequency can now be viewed within the NSP software. The default output frequency is 83 Hz (5000 PPK at 60 km/h)
- Release the button, wait 5 seconds, then press again to increase the pulse frequency.
- Release the button, wait 5 seconds, then press again to decrease the pulse frequency.
- Repeat this process until your desired output frequency is reached.
- Power the unit off, then back on. Your calibration will be saved.

HT-011310



Revision #3

Need more help?

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HT-011310
GPS Speed Input Module
(inc. GPS antenna, plug and pins)



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