GPS PULSE GENERATER

With basic GPS technology, and easy installation, the QS1 is the answer to a simple electric speedometer.

You no longer have to worry about complex calculations, messy gear changes in the speedometer cable housing of the transmission or just accepting a speedometer reading that is just close to accurate.

Leave the switches or pots as the gauge manufacture recommends for default settings, and you will **not** have to study the chart to make changes to get calibrated.

Installs under, glass, abs, leather, cloth, fiberglass, plastic or interior form panels without effecting performance. Do not install behind or under metal. Do not install behind or under other alloy materials (this would impact QS1's ability to lock to satellite).

DIMENSIONS:

Height 7/8"

Length 3"

Width 1 ½"

4' Lead cable included, cable can be extended if mounting location requires

FEATURES:

- EASY TO INSTALL
- SIMPLE MOUNTING
- ONE OF THE SMALLEST SELF CONTAINED UNITS
- VERY SIMPLE 4 WIRE HOOK UP
- INSTALLS BEHIND MOST INTERIOR PANELS
- WATER RESISTENT
- LOWER COST THAN OTHER UNITS

WIRING

All of these connections can be made directly to the rear of your electric speedometer

NOTE: Do not bundle QS-1 wire lead to other harnesses or wiring looms, it is a best practice to have this cable follow its own path separate from other wiring.

Red= positive ignition source (**Do not wire to a constant power source**)

Black= ground (best to ground in same series or location as speedo)

White= signal to speedo(do not bundle the signal wire with other harnesses or looms)

Green= pulse selection wire (this wire must be hooked up for unit to operate)

1. Green wire connected to ground will create 8K ppm signal
2. Green wire connected to ignition positive will create 16K ppm signal
   (Do not connect to a constant positive source, switched/ignition positive power source only)

Popular speedo pulse rates

16K ppm	**8K ppm**	**Measured Mile**
Classic	Haneline 3n1	Omega Kustom
Auto Meter	Haneline 5n1	Vintage
Dakota	pre 19—classic	TPI
Haneline Elite	pre 19—Beede	Dolphin
Veethree		
Teleflex		
Beede		

Instructions

NOTE: Always disconnect battery to vehicle while working on anything electrical.

Determine the signal your gauge operates off of (8k ppm or 16k ppm) by consulting the manufacture or from the instructions provided with your speedometer. We have listed several popular units to help ad in your install.

Application #1 One touch or measured mile programmable speedometers will operate off either signal in most cases. Once gauge is wired to QS1 GPS, you will still need to complete the measured mile programming per the speedometer manufacturer's instructions. Finishing up by programming your speedometer is so the unit knows what signal is expected/sent by the QS1. If a small adjustment is desired the program process will need to be repeated, if this is a need you should check the mile markers used for accurate distance. Incorrect distance during programming is the main thing that will impact speedometers ability to perform accurately. It will be a very rare case that you need to make changes.

Application #2 Dip switch programmable speedometer will require the speedometer to be set at manufactures default setting, refer to the speedometer instructions for this setting. Once you have set the dip switches we recommend test driving the vehicle to confirm operation before final install of the gauge. If a small adjustment is desired the dip switch chart provided by the speedometer manufacture is the only way to change calibration. It will be a very rare case that you would need to make changes.

Troubleshooting

- The speedo is reading half the true speed
  change the polarity of the green selection wire

- The speedo is reading double the true speed

  Change polarity of the green selection wire

- No speedometer operation
  1. Confirm positive and negative connections
  2. Confirm green selection wire is connected (follow install for correct polarity)