

# Data Acquisition Products

## Non-Contact Speed Sensor

GPSTran

### Applications

- ▶ Agricultural
- ▶ Telematics
- ▶ Trip recorders
- ▶ Taxi Meters
- ▶ Data logging

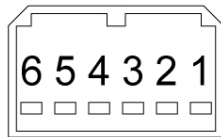
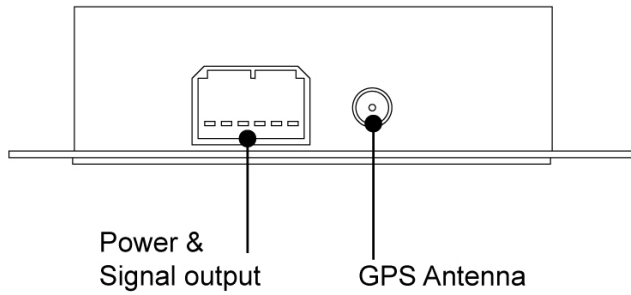
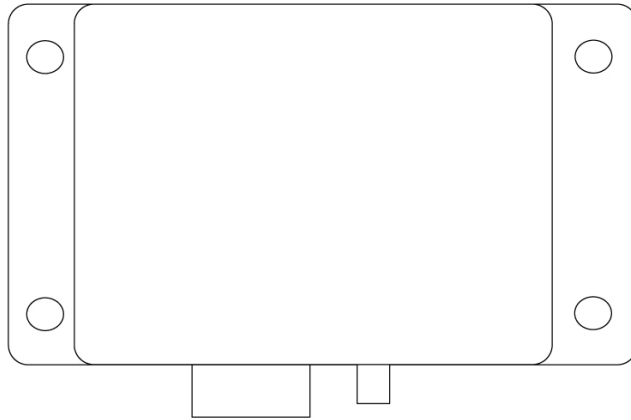


The GPSTran is designed to provide a vehicle speed signal to telematic or other equipment. The non-contact method of operation allows measurement of speed in applications where use of traditional speed sensors is not possible. Output is in digital pulse form with a frequency directly proportional to velocity. The velocity data is derived from Doppler measurement of GPS satellite carrier signals. This Doppler measurement ensures an accuracy of within 0.1 Km/h (0.0625Mph) when an open view of the sky is available. Operational status is indicated through a tri-colour led. A recessed push-button switch is housed on the rear of the unit to initiate a GPS cold start after installation.

Inputs		
Power	Voltage	+8V to +40V DC
	Current	Approx 130mA max
Push button	Cold start activate	
Outputs		
Speed pulse	Adjustable pulse per meter (0.1 to 100)	
	Default 10ppm	
Led status	Green*	Power on / Operation OK
	Red*	Power on / Low satellite count
	Amber	Power on / Cold start active
	No light	Power off

\*Pulses to indicate GPS communication

# Data Acquisition Products



Mating connector  
AMP / Tyco 175507-2  
Contact terminals 175062 or 345160

### Main Connector (Type AMP Multilock 040)

Pin	I/O	Function	Wire Colour
1	I	Ground	Black
2	I	+8V to +40V Power. Ignition switched feed	Red
3	O	Speed Pulse Output (0 to Vpower)	Orange
4	O	Reserved	
5	O	RS232 TxD (Configuration only)	
6	I	RS232 RxD (Configuration only)	

### GPS Antenna (Type SMA)

Pin	Function
Center	Signal / Active antenna bias
Shield	Ground