

## GPS Speed Sender

### Description

Sender using 1 or more GPS satellite transmitted signals as reference to calculate and transmit a vehicle's speed to a speedometer .



### Features

- ABS sealed housing, IP67
- Multicolored status LED
- 2m cable

### Concept

- 8-16VDC, <10mA at 12V
- GPS accuracy (unaided) position: 2.5m (CEP50), Velocity 0.01 m/s (50%), Time: 1us (Typ.) UR 1Hz fix/s
- L1 frequency, C/A code (SPS), 48 channels (SiRF/CSR GSD4e Chipset, TTFF 35-60s)
- Output 12V Square Wave at 200,000 pulse/mile (124,000 pulse/km)

### Power Supply

- |                     |              |
|---------------------|--------------|
| • Operating Voltage | 8-16V        |
| • Quiescent Current | N.A.         |
| • Operating Current | <10mA at 12V |

# Product Information

www.vdo.com/usa

## Hardware

- **Environmental Protection Class** IP67
- **Operating Temperature Range** -30°C to +85°C
- **Storage Temperature Range** -40°C to +85°C
- **EMC Specification** 2004/104/EC. Radiated and conducted emission BB & NB  
Radiated and conducted immunity, 30V/m
- **RoHS Compliant** Yes
- **Wire Color Configuration** Red = 12V+, Blue=GND, Green=Signal
- **Dimensions** 76.30x35x15mm (LxWxH)
- **Weight** 50 grams
- **Material** GP ABS material, sealed

## GPS Sensor

- **General** L1 frequency, C/A code (SPS), 48 channels  
SiRF/CSR GSD4e Chipset
- **Update Rate** 1 Hz fix/s
- **Accuracy (Unaided)** Position 2.5m (CEP50)  
Velocity 0.01 m/s(50%)  
Time 1us (Typ.)
- **TTFF (Time To First Fix)** Cold Start: 35-60s typ.  
Warm start: 35-60s typ.  
Hot start: 1s typ.
- **Sensitivity** Acquisition (cold): -147dBm  
Re-Acquisition: -162 dBm  
Tracking: -163 dBm
- **Power Consumption** 68mW @1.8V
- **Power Module** SiRF Aware, 125uA in average consumption
- **Protocol** NMEA 2000 3.0

## Outputs

- **Speed Signal** 0-10V; 4mA @0-8kHz  
200,000 pulse/mile (124,000 pulse/km)
- **LED Status Indicator** Orange Flashing: startup mode , searching for GPS  
Green: Connected to GPS  
Red Flashing: Cannot find GPS  
Red Constant: System Failure

## Part number

- **Single Packaging (Consumer)** 340-786
- **10 pc Bulk Packaging (OEM)** 340-786B
- **Unpackaged** A2C59519786