



# Stalker Traffic Statistics Sensor

## FEATURES

- Low power consumption < 1 watt
- Collects traffic volume, speeds, direction and classification over time
- Internal data memory - autonomous
- Collects data in four different modes
- Tracks up to 10 moving vehicles simultaneously
- Waterproof and weatherproof
- Streaming raw data output
- Works with Stalker Traffic Statistics App for data analysis and presentation
- 1-Year parts and labor warranty

## Low Cost. Low Power Requirement. High Performance Traffic Statistics Sensor.

The Stalker Traffic Statistics Sensor is a self-contained system to monitor and internally record traffic patterns on roadways in virtually any location and weather condition.

It can be securely pole-mounted or built into a speed/message trailer or pole-mounted speed sign. It can also be configured using the PC graphical interface for a wide variety of survey schedules including daily schedules with multiple periods during a day, and weekly schedules using selected days.

*Four survey collection modes are available:*

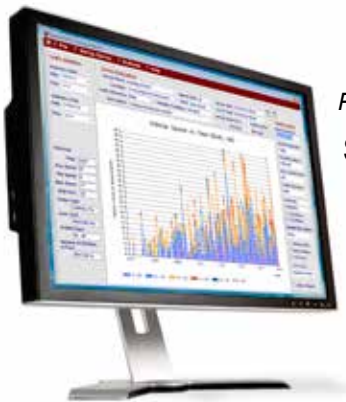
- Always on
- Only during set time period
- Same time period every day
- Only on selected days

*Four data points are stored:*

- Traffic volume
- Vehicle speeds
- Vehicle direction
- Vehicle classification

The Stalker Traffic Statistics Sensor allows data to be collected and easily downloaded to your PC for analysis and presentation using the *Stalker Traffic Statistics App*.

In addition to its statistical capabilities, the unit can track up to 10 moving vehicles simultaneously and operate as an ordinary speed sensor feeding strongest and fastest target information to external systems through a RS-232 or RS-485 interface.



*PC Application*

### Stalker Traffic Statistics App

The Stalker Traffic Statistics App is a stand-alone PC application for data analysis and presentation. The data can be analyzed to support roadway improvements, speed limit compliance, or traffic pattern improvements.



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# Stalker Traffic Statistics Sensor

The Stalker Traffic Statistics Sensor can function as a stand-alone sensor that streams data over a serial connection to a computer or other device. Developers planning using the Stalker Traffic Statistics Sensor for this purpose are encouraged to consider using the Stalker Stationary Speed Sensor (200-0880-00) instead.

## Performance

Range ..... >1300 feet (400 m)

Minimum Speed..... 1 MPH(1.6 KMH)

Maximum speed ..... 200 MPH (321.9 KMH)

Speed Resolution ..... 0.1 MPH (.16KPH)

Speed Accuracy..... ±0.5 MPH ±0.3%  
±0.8 KPH ±0.3%

Directionality selections ..... Approaching, Receding, Both

## Communications Ports

- 4 communications types
  - RS-485 full duplex
  - RS-485 half duplex
  - RS-232, no flow control
  - RS- 232 with hardware flow control
- Up to Three simultaneous ports,
  - one RS-485 FD and one RS-232 port available simultaneously
  - Two RS-485 HD and one RS-232 port available simultaneously
  - Any output protocol on any port
- Baud rates – 9.6K to 115.2K baud
- 11 streaming protocols
- 3 polled protocols
- Sensor are addressable with multi-drop capabilities

## Physical characteristics

Size (LxWxD) excluding connector..4.4 x 3.9 x 1.6 inches  
(11.2 x 9.9 x 4 cm)

Weight .....<13 oz. (.35 kg)

Housing .....Die-cast aluminum

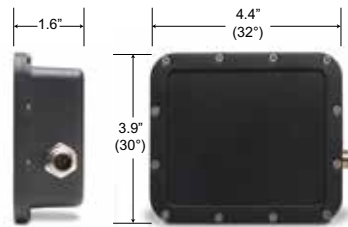
Lens.....HDPE

Electrical connector .....M12, 12 pin

Mounting.....4 x 10-32 UNF

## Trigger Output

- Electrically isolated trigger contacts
- Two normally open (NO) contacts
- 60 volt max
- 400 mA max



## Microwave

Center frequency .....24.125 GHz

Frequency range ..... 100 MHz

Transmit power..... 100 mW

Beam width.....30° by 32°

F.C.C. Approved. No license required.

## Power

Voltage.....10 to 45 volts, DC

Current (24 volts DC).....80 mA @ 12 VDC typical

Power .....<1 watt

### Protections

- Transient protection
- Reverse voltage protection
- Resettable Fuse

## Environmental

Operating temp.....-30 to +70° C

Storage temp.....-45 to +85° C

Ingress rating..... IP67

## PC Graphical Interface

- Powerful tool for sensor configuration, testing and firmware update



## Developers Kits

**Traffic Statistics Sensor, sensor only**  
Part number: 200-0880-01

### Traffic Statistics Sensor Developers Kit - RS-485

Part number: 200-0925-20  
Includes sensor, power/serial data cable, sensor mounting hardware, Stalker Traffic Statistics App, and user manual.

### Traffic Statistics Sensor Developers Kit - RS-232

Part number: 200-0925-21  
Includes sensor, power/serial data cable, sensor mounting hardware, Stalker Traffic Statistics App, and user manual.

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