

Stalker® Radar Speed Sensor™

Self-contained, *waterproof* speed measuring radar for the OEM.



Whether your OEM application requires a Traffic Speed Sensor (moving or stationary), a Stationary Speed Sensor, a Speedometer Speed Sensor, or a Sports Speed Sensor, the **STALKER** Speed Sensor is the ideal Doppler Radar solution for you.

The **STALKER** Speed Sensor is a complete Doppler Radar in a small, rugged, waterproof, cast-aluminum housing. Just supply 9-16 VDC and it will produce serial speed data configured to your application.

The **STALKER** Speed Sensor has the range and performance of the legendary **STALKER** Traffic Radar products. Your application might not require our 2-mile range, but it is there if you need it.

Manufactured by Stalker,
The World Leader in Speed Measurement

STALKER

applied concepts, inc.

A family of radars with common hardware and software tuned to the application.

Traffic (Enforcement) Speed Sensor. When the application requires a radar with both moving and stationary capabilities, the Traffic Speed Sensor is the natural choice. The Traffic Speed Sensor has all the features of a world-class traffic radar built in, including:

- Moving and stationary mode operation
- Direction sensing (closing/away, opposite/same-lane)
- Longest range available – up to 2 miles
- Simultaneous closing/away operation available in stationary mode
- Strongest and faster target detection in all modes
- True Doppler audio output
- Strongest and faster speed locking
- Tuning fork test mode
- Transmitter on/off control
- Speed units selectable: MPH or KPH
- Unit or tenths resolution selection
- Adjustable sensitivity, doubling suppression, squelch and audio volume
- RS-232 serial interface supporting baud rates up to 38400
- Selectable output protocols and data formats

Application: Speed enforcement – While the Traffic Speed Sensor has features that are designed for law enforcement, such as speed locking and Doppler audio output, it is the perfect speed sensor for any application requiring the monitoring of target speed in a mobile environment.

Stationary Speed Sensor. When measuring speed from a fixed position, the Stationary Speed Sensor is the right choice. The Speed Sensor's waterproof case allows it to be mounted in any outdoor location. Use it anywhere that speed measurement from a fixed location is the primary requirement. Its features are:

- Stationary-only operation
- Direction sensing (closing or away, simultaneous closing/away)
- Longest range available – up to 2 miles
- Strongest and faster target detection in all modes
- Tuning fork test mode
- Transmitter on/off control
- Speed units selectable: MPH or KPH
- Unit or tenths resolution selection
- Adjustable sensitivity
- Adjustable threshold speed alarm output
- RS-232 or RS-485 serial interface supporting baud rates up to 38400
- Selectable output protocols and data formats

Applications: speed warning signs; traffic studies; rail crossing safety; rail yard operations; water velocity measurement (flood control, river management); lava flow measurement; warehouse safety; school zone monitoring; ship docking operations; industrial applications; manufacturing process control; international border monitoring; drug/contraband interdiction; base/plant entrance gate security; and toll booth speed monitoring.

Speedometer Speed Sensor. If the application is in motion, the Speedometer Speed Sensor fits the assignment. Think of it as a Radar Speedometer and more. For example, since it's direction sensing it can measure speed in both directions. Use it anywhere the object that it's mounted on is in motion. Other features include:

- Senses ground speed of object-mounted speed sensor (e.g. vehicle)
- Direction sensing (forward/reverse)
- Adjustable ground speed sensitivity
- Adjustable automatic gain control (AGC) range
- Speed units selectable: MPH or KPH
- Unit or tenths resolution selection
- RS-232 or RS-485 serial interface supporting baud rates up to 38400
- Selectable output protocols and data formats

Applications: locomotive speedometer; agricultural applications; warehouse safety; ship docking operations.

Sports Speed Sensor. Sports Radars have special requirements, whether it is measuring a baseball, automobile, speedboat, or snowmobile. Greater accuracy is needed inside a narrower speed range. Look to the Sports Speed Sensor to meet those requirements.

- Direction sensing (closing or away, simultaneous closing/away targets)
- Current and peak speed reporting
- Speed units selectable: MPH, KPH, nautical miles/hr (knots), feet/sec, meters/sec
- Mode selection – 15 modes covering various min/max target speed ranges and target type (normal, ball)
- Unit or tenths resolution selection
- Adjustable sensitivity
- Adjustable threshold speed alarm output
- RS-232 serial interface supporting baud rates up to 115200
- Selectable output protocols and data formats

Applications: team and individual sports (hockey, tennis, golf); sport performance measurement; radio-controlled vehicle applications; baseball pitching training equipment; watercraft applications.

General specifications:

4.7" (12 cm) long x 2.6" (6.6 cm) diameter;
1.15 lbs. (0.52 kg);
Operating temperature -30 ~ 70°C, -22 ~ 158°F;
Non-operating temperature -40 ~ 85°C.

Trust Your Speed Measurement Challenges to Stalker, The World Leader in Speed Measurement.

Applied Concepts, Inc., formed in 1977, introduced the first Stalker radar to the law enforcement industry in 1990. Because of the technology introduced by the Stalker product line, the entire police radar industry has been transformed from a complacent "me too" industry to a very dynamic "state-of-the-art" industry with all competitors trying to play "catch up" with the Stalker products. Stalker Radar has become the dominant Doppler radar system and continues to lead the industry in technology breakthroughs and product innovations. Stalker team members were involved in almost every significant radar-based product development since 1970 including:

- The first solid state police radar
- The first moving traffic radar
- The first K-Band radar
- The first K-Band handheld radar
- The first microprocessor radar
- The first Ka-Band radar
- The first cordless radar
- The first DSP radar
- The first "long range" radar
- The first digital antenna radar
- The first radar simultaneously tracking strong and faster targets
- The first direction sensing moving radar
- The first radar with Automatic VSS Calibration
- The first radar with Automatic VSS stationary mode / moving mode switching
- The first radar that simultaneously monitors 2 moving zones or 4 stationary zones
- The first radar with Rear Traffic Alert

Stalker will continue to innovate and to demonstrate the ability to lead all competitors.

