

April 12, 2023

State of Iowa – Bureau of Traffic & Safety
Department of Transportation – Purchasing Section
800 Lincoln Way
Ames, IA 50010
Attention: Ms. Jean Gustafson

Subject: RFB FY2023 #097 Addendum 4 Statewide Radar Speed Feedback Signs

To Whom It May Concern,

Applied Concepts Inc. dba Stalker Radar is happy to provide our response to the above referenced Request for Bid. Per the product specifications, we are in compliance with the salient functions. We have provided the comparisons in the Pre-Bid Request For Approval submission. We agree to provide the Stalker 12 Inch and 18 Inch versions, with an extended warranty period of 5 years. We offer the following documents as additional information: The Stalker Street Dynamics PMG product brochure, Specifications details, Limited Warranty Statement. Please consider the following information as our Letter of Transmittal.

Offeror:

Applied Concepts, Inc. dba Stalker Radar 855 E. Collins Blvd. Richardson, TX 75081 (800) 782-5537, ext. 335

Primary Point of Contact:
Contracts and Proposals Manager
William Titterington
(800) 782-5537, ext. 335
billt@a-concepts.com

**Customer Service and Support:** 

Call-In Hours: Monday - Friday 8:00 am - 5:00 pm CT

Toll Free: (877) 782-5537 Ext. 222

Service Tickets or Return Tickets On-Line https://www.stalkerradar.com/support\_centers.php

Field Contact

Internal Sales and Support Representative Diane Satoren (972) 8091-4843 Regional Sales Manager Peter Bauer (972) 489-6701 peter@stalkerradar.com

### **Qualifications and Experience:**

Applied Concepts, Inc. dba Stalker Radar is a privately owned company and has been manufacturing speed measurement products for the Law Enforcement industry for 45 years. We are the sole source of manufacture for all Stalker Street Dynamics and Radar/Lidar products. The corporate facility is in Richardson, TX. We employ over 190 dedicated individuals that make our radars, lasers, speed sensors, speed trailers, message trailers, and pole mounted speed signs (PMG's). Our Engineering, Production, Quality Control, Shipping, Administration and Sales/Marketing departments are all located in one building to facilitate good communications and continual improvement of processes and analysis. We have been re-awarded an ISO 9001:2015 Certificate of Registration for "Design, manufacture and service of speed measurement products". We hold active, statewide radar product contracts/agreements in the States of California, Texas, North Carolina, Kentucky, New York, Michigan, Oklahoma, Missouri, Nebraska, Oregon, and Washington. This is not an all-inclusive list, but a small sample of current contracts, many agreements have been active for more than 15 consecutive years.



### **Independent Laboratory Product Certification:**

All our speed enforcement products have been independently tested by an approved Enforcement Technology Testing Facility and are listed on the National Highway Traffic Safety Administration's (NHTSA) Conforming Products List (CPL). Below is a link to that document, dated August 2021. <a href="https://www.nhtsa.gov/document/conforming-product-list-cpl-speed-measuring-devices">https://www.nhtsa.gov/document/conforming-product-list-cpl-speed-measuring-devices</a>

#### Qualification for Grants and Federal Funding:

All Stalker Radar speed measuring products meet the Buy American Act qualification criteria, and the John S. McCain National Defense Authorization Act (FAR 52-204, Section 889 Parts A&B), should any government entity purchase products with a grant, or federal funding during this agreement.

Delivery Upon Receipt of Order: Per the specified delivery address in the PO.

Applied Concepts, Inc. respectfully requests additional flexibility due to current supply chain and delivery conditions. We will commit to a firm 60 calendar days delivery schedule or sooner unless excessive conditions prevail due to the unpredictable nature of the present business environment. Should special consideration be requested, we will communicate directly with the agency and schedule delivery upon mutual agreement.

#### Exceptions to Specifications:

None.

### Cooperative Agreements:

Available and if requested, acceptable by the manufacturer upon mutual agreement of both parties.

### Stalker Radar Product Brochures:

All proposed products have brochures at this online address: https://www.stalkerradar.com/law.php

#### To the Benefit of the Customer:

All Stalker brand products are subject to revisions, enhancements, and upgrades without prior notice. Those revisions, enhancements and upgrades may be provided with no prior notice to the customer.

Should an official representative from the State of Iowa visit the greater Dallas metro area, we would enjoy meeting you and be honored to provide a tour of our Corporate and Manufacturing facilities.

Thank you for your consideration of our products. We look forward to our next conversation.

Regards,

William H. Titterington

Contracts and Proposals Manager

Applied Concepts, Inc., dba Stalker Radar

(800) 782-5537, Ext. 335

billt@a-concepts.com

applied concepts, inc.

StalkerRadar.com | Registered to ISO 9001:2015

855 East Collins Boulevard | Richardson, Texas 75081 | 972.398.3780 | 1-800-STALKER | Fax: 972.398.3781



### Pre- Bid Request for Approval of Products or Materials

For

## Statewide Radar Speed Feedback Signs

Proposal No.: RFB FY2023 #097

**New Solicitation Response Due Date: April 5, 2023** 

Pre-bid substitution form is due on or before: March 28, 2023

FY '23 S	Statewide Traffic Control Dev	Aback Signs Powered by Solar Panels with Batteries vices Specifications NHSN-000-T(275)2R-00 March 2, 2023  / Paragraph: Will identify by line item for comparison
Description: Group 1: 12" D	isplay & 18" Display St	alker Street Dynamics PMG (Radar Speed Feedback Sign)
Proposed Product or Mate	rial: Stalker Street	Dynamics PMG (Radar Speed Feedback Sign)
Manufacturer:	Applied Concepts, Inc	Phone No: (972) 398-3780
Website or Email address:	www.stalkerradar.com	All communication to sales@stalkerradar.com
Make /Model No. Stalker Stre	eet Dynamics PMG 12"	' Display & 18" Display (Radar Speed Feedback Sign)
for the evaluation of the substitution	on request. The determinati submitted. Pre-bid substitution	s, drawings, photo's, performance and testing data adequate on of acceptance of this Pre-bid substitution request is only on approvals received for this bid do not determine or set a e State of Iowa.
Email		Submitted By Mm. H. Felleyfor
Iowa Department of Trar Purchasing Section Attention: Jean Gustafso	•	Company Applied Concepts, Inc.
Email <u>: jean.gustafson@i</u>		Address 855 E. Collins Blvd.
		Richardson, TX 75081
		City         State         Zip           Phone No.         (972) 398-3780
=======================================	DOT U	======================================
Approved Approved as note	ed Disapproved	Rejected (received request to late)
Reason		
Signature:		Date:

Iowa DOT Statewide Radar Speed Feedback Sign Requirements	
Addendum 4	
0.01 A - System Description	Bid Response
This work will be divided into three groups. Group 1 will be to supply everything necessary for the 12" Speed Feedback Sign system. Group 2 will be to supply everything necessary for the 18" Speed Feedback Sign system. Group 3 will include everything necessary for the footing, anchor bolts, base, collar, pole and cap (Support Structure). The intent of this bid is to supply all equipment and hardware necessary for DOT or local staff to install a solar powered, fully operational Speed Feedback sign.  Each unit shall consist of a LED sign module, solar panels, solar charge controller, batteries, footing material, pole material and associated mounting brackets. The size of the speed feedback display will depend on the exact location of installation. For this initial purchase, half of the order (50 units) will have the speed display using 18 inch character height and half (50 units) will be 12 inch character height.	Compliant
The system shall conform to all provisions of the following:  - MUTCD, Chapter 2B, Regulatory Signs, Barricades, and Gates  https://mutcd.fhwa.dot.gov/htm/2009/part2/part2b.htm#section2B  - MUTCD, Chapter 2L, Changeable Message Signs  https://mutcd.fhwa.dot.gov/htm/2009r1r2/part2l.htm  - MUTCD, Interpretation Letter 2(09)-79 (I) - Radar Speed Feedback Signs  https://mutcd.fhwa.dot.gov/resources/interpretations/2_09_79.htm  Systems that include non-MUTCD compliant enhancements will not be considered unless these features are disabled at the factory or prior to shipping. Such features include, but are not limited to, the following: - Flashing lights or strobes of any color, - Icons  - Word messages other than "SLOW DOWN", - Flashing numeral displays, - Changing of colors in the numeral display, - Use of a sign color or LED color not specified in this document	With 'MUTCD Compliance' enabled from the programming tools and as the hardware will be configured, PMG will operate as described, i.e. speed sign only with limited text of SLOW DOWN.
O.01 B - System Operations  All signs shall be capable of operating 24/7/365.  * Activation of the speed value will depend on radar sensors and the speed of traffic approaching the sign.  * Electrical and battery storage systems shall be sized appropriately for year-round use.  * For equal evaluation of all photovoltaic systems, manufacturers shall size their system using the latitude and longitude of Mason City, lowa to determine the number of sun-hours available year-round.  * 12 month solar sizing report showing loss of load probability (LOLP) of less than 1.000% and/or an Array to Load ratio not being less than 1.2 during all months will be required by the vendor before a contract is signed to supply any material.	Compliant, report included for solar compliance
0.02 A - Materials : Mechanical Specifications	
1) Cabinet/Housing.	
a. The cabinet and/or housing shall be manufactured using aluminum or DOT pre-approved equivalent. It shall have a rating of NEMA 3R, or better, for protection-from weather.  b. Each cabinet shall be equipped with mounting brackets for the poles identified in this purchase specification. All necessary hardware for proper mounting shall be included and incidental to the sign bid item.	Compliant.

2) Solar Charge Controller	
a. The solar charge controller shall be fully automatic charger using three stages of charging for rapid, efficient and safe battery charging.	
* Stage 1: Full Charge, with 100% of available solar energy.	
* Stage 2: Either Pulse-Width Modulation (PWM) or Maximum Power Point Tracker (MPPT) is allowed for constant voltage regulation to prevent heating and excessive battery gassing.	
* Stage 3: Float Charge, after battery is fully recharged, reduces to a float or trickle charge with transition dependent on battery history-	
b. The solar charge controller shall have a low voltage disconnect (LVD) of 11.4 VDC and shall automatically reconnect after LVD when the voltage reaches 12.6-VDC. The charge controller shall have a high voltage disconnect (HVD) of 15.3VDC.	Complaint - fully integrated MPPT based charger, with status readable through supplied PC and Wireless tools.
c. Colored indication LED's (or similar display methods) shall show various states of system operation. For example, a green LED or LCD display may show the system is charging and turn off when not charging. Battery status LED's indicate battery state, showing a blinking green LED during PWM/MPPT charging, a solid green LED when battery is near full charge, a solid amber LED indicating battery at middle capacity, blinking red LED indicating low charge, or a solid red LED indicating load disconnected (LVD). Alternate methods to communicating system operation will be considered.	
d. Solar charge controller shall be capable of operating in a temperature range of 40°F and +140°F.	
e. Solar charge controller shall be approved to Underwriters Laboratories, Inc. (UL) standards.	
3) Solar Panel	
a. The solar panel system shall be sized appropriately for the type of photovoltaic system proposed and required in this specification. The appropriate wattage of the solar panel shall be verified with a "Solar Sizing Report" based upon location (Mason City, Iowa) and specific system configuration and operating parameters.  b. The maximum width dimension of the solar panel should not exceed the width of the signs as specified. 36 inch (+/- 2 inches) max width for 18 inch character—	
height signs or 24 inch (+/- 2 inches) max for 12 inch character height signs.	Compliant, report supplied
c. Solar panels shall be rated for highway use and have a minimum 20 year life.	
d. When calculating the correct solar panel and battery size, vendors should assume the roadway will have an AADT of 7,500 vehicles (includes both directions).	
4. Battery	
Battery  a. The system battery shall be a maintenance free Lithium ion, absorbed glass mat (AGM) 12 volt DC battery or an approved equal. The battery self-discharge rate-shall be 1% per month or less (at 68°F). The appropriate battery size (AmpHr) shall be verified with a 12-month system sizing report based upon location and-specific configuration and operating parameters.  b. Battery system shall be sized to provide a minimum of 7 days of autonomy.  c. Batteries shall be designed and rated for outdoor use and have a 5-year full warranty from the date of delivery.	Compliant - 4 batteries
5. LED Speed Feedback Display	

a. Numeral Display Assembly	
* Two sizes will be required. a 12 inch character height version and an 18 inch character height version.	
- The actual character height of the 12 inch height signs can be 12 1/2 inch +/- 2 1/2 inches. Any size submitted between 10 inches and 15 inches will be acceptable.	
- The actual character height of the 18 inch height signs can be 18 inch +/- 2 inches. Any size submitted between 16 inches and 20 i+A25nches will be acceptable.	
* The width-to-height ratio of the numeral characters should be between 0.7 and 1.0. The stroke width-to-height ratio should be 0.2.	
* All Printed Circuit Boards (PCB) shall be covered with a conformal coating using a 5-mil, military-spec, low VOC, silicone conformal coating (Dow Corning 1-2577 or	
approved equivalent) to provide long term protection against moisture and other atmospheric contaminants, and to resist corrosion and shorts due to high-humidity.	Compliant
* Sign numeral display shall be visible from 1,000 feet away.	
* Sign numeral display shall be legible from 600 feet at night and 800 feet during daytime.	
- The LED display width shall only display 2 digits, centered in the LED display area. The number of 99 will be the largest value the sign can display. A 3-digit sign will not be considered if the 2 digit values are not centered in the sign.	
b. LEDs	
i. Color range: Amber, 589.5 to 592.0 nm on a black background.	
ii. Viewing Angle: 30 degrees minimum (15 degrees each side of the viewing axis)	Compliant
iii. The use of red LEDs for displaying numbers or the word message "SLOW DOWN" is not allowed in accordance with Table 2A-5 of the MUTCD.	
c. Radar	
* Approach-only radar senses the largest, nearest mass moving toward it.	
* K-band transmitter  * Distance range (minimums preferred)	Compliant
* Distance range ( <del>minimums</del> <u>preferred</u> ) * 1000 feet for 18 inch signs	
* 400 feet for 12 inch signs	
* Speed range 10 to 99 mph	
d. "YOUR SPEED" Faceplate/Background/Wrap	
* The proposed solution shall resemble the attached lowa DOT drawings for color, legend, look, and size. Final determination of an acceptable submittal will be conducted by the lowa DOT.	
* If the proposed solution incorporates the LED display and "Your Speed" sign as separate items and not assembled together, it will not be considered acceptable and will be disqualified to bid.	
* The letter height of "YOUR SPEED"  1. For the 18 inch character signs, the legend height shall be at least 6 inches.  2. For the 12 inch character signs, the legend height shall be at least 4 inches.	Complaint - border around LEDs is <
* The width of the faceplate should match the width of the static speed limit sign.  1. For the 18 inch character signs, the width shall be 36" (+/- 3 2 inches).  2. For the 12 inch character signs, the width shall be 24" (+/- 2 inches).	.5 inch
* There should shall be a black contrast border of 0.75 inch (+/- 0.25 inches) around the LEDs for better legibility	
* The color shall be yellow with a black border.  —1. Material shall be sheet aluminum (or approved equal) with retroreflective sheeting, complying with lowa DOT Standard Specification 4186.03 for Retro-	
Reflective Sheeting, Type XI.	
-a. https://www.iowadot.gov/erl/current/GS/content/4186.htm	

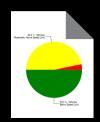
e. Operations	
Display shall should function as follows (or similar):  1. 0 to 50% of speed limit setting: Display is blank.  2. 50% of speed limit setting to threshold value: - Vehicle speed is displayed.  3. Over the threshold value: Display the word message "SLOW DOWN"  Speed limit and threshold values shall be configurable.  Configurations and settings changes shall be capable either directly from the sign, using a laptop through a wired or wireless connection or using a mobile phone. Any connection is acceptable except the option that requires the owner (DOT or City) to purchase a cellular data plan for the sign to communicate to it.	Compliant
5. Traffic Signal Pedestal Pole & Base	
Materials:	
a. Pedestal: The height from the bottom of the base to the top of the shaft will be determined by the vendor using the attached 4 Installation types.	
b. Pedestal Shaft: Schedule 80 with satin brush or spun finish aluminum tubing. Top of the shaft outer diameter to be 4 1/2 inches and provided with a pole cap. Supply base collar for poles with shaft lengths greater than 10 feet. For bidding purposes, the vendor may assume 4 different lengths, (13 feet, 15 feet, 16 feet, and 18 feet).	
:. Pedestal Base: Cast aluminum, square in shape, with a handhole.	Not Applicable, except that our provided Speed Sign mounting
1) Handhole: Minimum of 3 1/2 inches by 5 1/2 inches and equipped with a cast aluminum cover that can be securely fastened to the base with the use of simple ools.	hardware will adapt to this pole
2) Base: A breakaway base with a four-bolt pattern uniformly spaced on a standard 13 inch diameter bolt circle. Meet or exceed current AASHTO crashworthiness requirements.	
d. Pedestal Cap: Acorn type, or similar. Aluminum.	
7. Foundation Anchor / Helical Pile	
a. Only one foundation type will be used for all installation types. Installation Type 4 will be used for all foundation calculations since it uses the largest sign and allest pole. Vendors shall review the proposed install Type 4, along with the proposed hardware (speed limit sign, speed feedback sign, solar panels, cabinet, and necessary mounting hardware) and propose an anchor system appropriate for the structure based on AASHTO loading requirements. Vendor may assume cohesive soil conditions for calculations.	Not Applicable
b. Unless specific calculations show a larger anchor is required, the minimum acceptable size will be 60 inches long (measured from top plate to helix) with a 6 inch diameter schedule 40 shaft.	,,,
The diameter of the bolt circle must be compatible with the proposed pedestal base's 13 inch bolt circle.	
3. Anchor Bolts	
a. There will be 2 types of anchor bolts and therefore 2 bid items. Both anchor types shall be hot dip galvanized anchor bolts complying with ASTM F 1554, Grade 36, meeting pole manufacturer requirements for installation.  1) Anchor Bolt Kits for Helical Piles: This bid item will include all necessary items to attach a Pedestal Base (item 6) to a Helical pile footing (item 7). A complete set shall include (at a minimum) 4 bolts, 1 adapter plate, all the necessary nuts, washers, lock washers and trapezoidal washers as well as any other hardware necessary or a complete system meeting the requirements of this project. Sizing of above-mentioned material will be based on manufacture's recommendation for installation.  2) Anchor Bolt Kits for Concrete Footings: This bid item will include all necessary items to attach a Pedestal Base (item 6) to a concrete footing (See TS-102 for Pedestal Pole Foundation). A complete set shall include, at a minimum,: 4 bolts (5/8 inch steel), all the necessary nuts, washers, lock washers and trapezoidal	Not Applicable
vashers as well as any other hardware necessary for a complete system meeting the requirements of this project.  TS-102 details can be viewed here: (Use Sheet 4 or 4) https://iowadot.gov/erl/current/RS/content_eng/ts102.pdf	

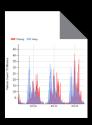
Item	PMG 12"	PMG 18"	
General			
Width	21.2" (54.0 cm)	30.3" (77.0 cm)	
Height	16.1" (40.9 cm)	22.1" (560 cm)	
Depth	,	,	
Standard	1.42" (3.6 cm)	1.42" (3.6 cm)	
with Solar or AC Module	2.31" (5.87 mm)	2.31" (5.87 mm)	
with Quad Bay Battery	5.67 (14.4 cm)	5.67 (14.4 cm)	
Weight	DC Version - 9.3 lbs. (4.22 kg) w/o battery	DC Version - 17.45 lbs. (7.92 kg) w/o battery	
Ingress rating range	NEMA 3R compliant	NEMA 3R compliant	
Operating Temperature	-40° to +140° F complaint	-40° to +140° F complaint	
Cabinet	Welded Aluminum Front Frame - 0.09" (2.3 mm) Rear Frame - 0.08" (2.0 mm) 11 Gauge Al	Welded Aluminum Front Frame - 0.09" (2.3 mm) Rear Frame - 0.08" (2.0 mm) 11 Gauge Al	
Case Color	All White [standard]	All White [standard]	
Display			
Dimensions			
Display Height	12" (30.4 cm)	18" (45.7cm)	
Display Width	18.5" (47.0 cm)	27.6" (70.7 cm)	
Window			
Material	Acrylic	Acrylic	
Thickness	0.177" (4.5 mm)	0.177" (4.5 mm)	
Viewing Area	19.5" x 12.5" (49.53 cm x 31.75 cm)	28.6" x 18.5 (72.64 cm x 16.99 cm)	
Electrical			
LED			
LED Lamp	Amber, 590 nm	Amber, 590 nm	
LED Maximum Intensity (mcd)	Amber - 4000	Amber - 4002	
LED Viewing Angle	Amber - ± 15° Horz & vert	Amber - ± 15° Horz & vert	
Full Matrix Pixels	21 rows / 36 columns	31 rows / 48 columns	
Features			
Illumination	Active LED brightness, Manual	Active LED brightness, Manual	
Power			
Energy Source	AC, DC, Battery, or Solar (12 VDC or 90-240 VAC @ 50/60 Hz)	AC, DC, Battery, or Solar (12 VDC or 90-240 VAC @ 50/60 Hz)	
Autonomy	configuration dependent, indefinate with solar	configuration dependent, indefinate with solar	
Solar panel system	100W	100W	
Radar			
Radar	Stalker Traffic Statistics Sensor - K-Band (200-1229-00)	Stalker Traffic Statistics Sensor - K-Band (200-1229-00)	
Frequency	24.125 MHz, ± 100 MHz	24.125 MHz, ± 100 MHz	
Output Power	10 mW	10 mW	
Radar beam width	33° x 33°	33° x 33°	
Detection distance	1000' typical (182 m)	1000' typical (275 m)	
Directionality	Approaching + Receding (singular display, dual logged)	Approaching + Receding (singular display, dual logged)	

10 targets		
io largels	10 targets	
5	5	
5-200 MPH, 1 MPH increment	5-200 MPH, 1 MPH increment	
external control,	external control,	
	Key Fob [optional]	
	Yes	
	USB, Short Range Wireless	
	PC app, android app, iOS app	
per free GB	On-device storage - SD card 10 million per free GB	
	USB	
Stalker Traffic Analyst - included	Stalker Traffic Analyst - included	
Full Surround	Full Surround	
24" x 30"	33" x 40"	
4.8 lbs	7.5 lbs	
4" Highway Gothic Font E	6" Highway Gothic Font E	
Black text on Yellow field	Black text on Yellow field	
15 lbs	15 lbs	
Up to Four (4)	Up to Four (4)	
See PMG dimensions	See PMG dimensions	
SLA - AGM	SLA - AGM	
12V	12V	
22 Ah	22 Ah	
6.89" x 6.54" x 4.92" (175mm x 166mm x 125mm)	6.89" x 6.54" x 4.92" (175mm x 166mm x 125mm)	
13 - 15 lbs per battery	13 - 15 lbs per battery	
~47.2" x ~21.2" x ~1.4"	~47.2" x ~21.2" x ~1.4"	
~18 lbs	~18 lbs	
Aluminum	Aluminum	
~4 lbs	~4 lbs	
	external control, Key Fob [optional] Yes  USB, Short Range Wireless PC app, android app, iOS app On-device storage - SD card 10 million per free GB USB  Stalker Traffic Analyst - included  Full Surround 24" x 30" 4.8 lbs 4" Highway Gothic Font E Black text on Yellow field  15 lbs Up to Four (4) See PMG dimensions  SLA - AGM 12V 22 Ah 6.89" x 6.54" x 4.92" (175mm x 166mm x 125mm) 13 - 15 lbs per battery  ~47.2" x ~21.2" x ~1.4" ~18 lbs  Aluminum	

# **Collect Traffic Statistics**

The PMG, as well as all of the Street Dynamics radar speed signs, include the option to collect and store the traffic data generated by passing vehicles. Information about vehicle count, speed, classification (small car, semi-truck, etc.), and traffic patterns is automatically collected and stored in the sign's memory.





# **Enhanced Functionality**

### **Flood Sensor**



The PMG can be paired with up to three of the Street Dynamics innovative Flood Sensors to automatically trigger the PMG to display alert messages saying "HIGH WATER", "FLOOD AREA", "ROAD CLOSED", or any other customized message desired.

Messages will be escalated and de-escalated automatically as waters rise and recede- no need to send an officer to the scene.

## **Low-Speed Model**



There are low-speed, high risk environments where slower detection speeds are required, such as warehouses, supply yards, boating "no wake" areas, and other low speed, high-risk environments.

The new Low-Speed PMG model is designed to initially trigger at speeds as low as 3 MPH (~5 km/h) for small vehicles, and can trigger at even lower speeds for larger targets. The Low-Speed PMG model can then display as low as 1 MPH after initial triggering.



StreetDynamics.com

1-800-782-5537

applied concepts, inc.

855 East Collins Boulevard Richardson, Texas 75081

972.398.3780 Fax 972.398.3781



006-0018-00 Rev E





The Street Dynamics PMG is the most versatile radar speed sign available on the market today.

Use it to slow down speeders, communicate important messages, and, most importantly, save lives.















# Powerful Radar Speed Sign

The Stalker Radar legendary radar technology is at the heart of the PMG. This radar sign can accurately record and display vehicle speeds from up to 900' (275 m) away. Trigger the optional white, amber, or red/blue strobes when certain speed conditions are met or program your sign to display "SLOW DOWN" warnings in conjunction with preset speed thresholds.

Available in 12", 15", and 18" character heights choose yours based on road speed and desired viewing distance.





# Versatile Message Center

The PMG can be used as a variable message sign (VMS) to show any message, character, number, shape, or animation desired. Longer messages can be displayed in a rotating series of several shorter snippets.

# Text, animation, strobes, and graphics



Graphics and animation



3 colors of strobes



Custom messaging

## **Power Options**









## **Mounting**



Pole Mount



# **Remote Access**

# **Street Dynamics Web Portal**



## Connect

Access your connected 4G connected PMGs from anywhere with an Internet connection. The Portal allows you to manage all aspects of your PMG, including messaging, scheduling, and reports.

Design a wide array of messages, graphics, and animations. Customize the speed or event that triggers a message to appear on your PMG, and add flashing or strobes. Then, schedule them using the Calendar.

## Report

The PMG does double duty as a traffic data collector, and the Street Dynamics Web Portal allows you to turn this data into useful. actionable information to guide enforcement efforts, observe driver behavior. and traffic patterns. Print customizable reports and charts, or share.



# **SD: PMG App**



- Adjust speed settings and messaging on your non-4G connected PMGs, right from your PC, iOS, or Android device!
- Schedule messages in advanced with the powerful calendar features









August 26, 2022

To Whom It May Concern:

All Applied Concepts, Inc. / Stalker products contained in this letter are manufactured in the United States. All are in full compliance with the Buy American Act.

The following products listed below are domestic end products manufactured in Richardson, Texas.

- Speed Enforcement Radar: 2X, DSR, Dual, Patrol, & Stalker II
- Speed Enforcement Laser: LIDAR XLR, XS, & RLR
- Traffic Data Collector
- Pole Mounted Speed Signs and Pole Mounted Variable Message and Graphics Signs

The following products listed below are domestic end products manufactured in Garland, Texas.

SAM, SAM-R, Arrowmaster, and Message Center Trailers

The Applied Concepts, Inc. / Stalker Mini-Message trailers are domestic end products manufactured in Dallas, Texas.

If you have any questions regarding this or any aspect of Stalker products, please contact your Stalker Regional Sales Manager, or call 1-800-STALKER.

Sincerely,

Alan B. Mead

CEO

Applied Concepts, Inc. / Stalker Radar





December 07, 2021

#### To Whom It May Concern:

This is to confirm that all Applied Concepts, Inc. / Stalker Radar products shown below, are in full compliance with the FAR Section 52.204.24-26, John S. McCain National Defense Authorization Act (NDAA) as of Fiscal Year 2019 (Pub. L. 115–232). Per Section 889(a)(1) Parts A and B: Applied Concepts, Inc. will not provide covered telecommunications equipment or services to the Government in the performance of a contract. Further, Applied Concepts Inc. does not use any equipment, system, or service that uses covered telecommunications or services as a substantial or essential component of any system, or as a critical technology as part of any system from the list of excluded parties in the System for Award Management.

The following products listed below are manufactured in Richardson, Texas.

- Speed Enforcement Radar: 2X, DSR, Dual, Patrol, & Stalker II
- Speed Enforcement Laser: LIDAR XLR, XS, & RLR
- CopTrax In-Car Video Systems
- Traffic Data Collector
- Pole Mounted Graphics Display

The following products listed below are manufactured in Garland, Texas.

• SAM, SAM-R, Arrowmaster, Message Center 360, & Mini-Message trailers.

If you have any questions regarding this or any aspect of Stalker products, please contact your Stalker Regional Sales Manager, or call 1-800-STALKER.

Sincerely,

Alan B. Mead

Applied Concepts, Inc. / Stalker Radar

## applied concepts, inc.

### **Limited Warranty Table**

Product Type	Parts and Labor for System Components		Parts and Labor for Non- System Components	
	1 Year	2 Years	3 Years	90 Days
Stalker DSR 2X			<b>♦</b>	Cables/mounts/etc.
Stalker DSR			<b>♦</b>	Cables/mounts/etc.
Stalker Dual SL			<b>♦</b>	Cables/mounts/etc.
Stalker Patrol			<b>♦</b>	
Stalker II (Moving/Stationary)		<b>♦</b>		Cables/batteries/mounts
Stalker Traffic Data Collector		<b>♦</b>		Cables/batteries/mounts
Stalker Lidar		<b>♦</b>		Batteries
Pole Mounted Speed Sign		<b>♦</b>		Cables

## **Limited Warranty Statement**

Manufacturer warrants the radars, lasers, traffic data collectors and pole mount speed signs to the original purchaser to be free of defects. At its discretion, the manufacturer agrees to repair or replace all radar components that fail due to defective materials or workmanship during stated warranty period from the date of purchase. During the warranty period, there will be no charge for repair labor or parts. Purchaser shall return the failed unit to the factory or authorized service center, freight prepaid. The manufacturer will pay standard UPS ground return shipping. This warranty applies only to internal electronic components and circuitry. Warranty excludes normal wear-and-tear such as fraved cords. broken connectors, scratched or broken cases, or physical abuse. Manufacturer reserves the right to charge for defects and/or damages resulting from abuse or extraordinary environmental damage to the unit during the warranty period at rates normally charged for repairing such units not covered under warranty. Seller warrants the radar devices manufactured by Applied Concepts, Inc. are designed to perform to function of determining the speed of motor vehicles or the speed of target objects with reasonable radar reflectivity. The foregoing warranty is exclusive, in lieu of all other warranties, of equality, fitness, or merchantability, whether written, oral, or implied. Applied Concepts, Inc. will not be liable for any direct, indirect, consequential or incidental damages arising out of the use or inability to use the product. As a further limit on warranty, and as an expressed warning, the user should be aware that harmful personal contact may be made with seller's radar devices in the event of violent maneuvers. collisions, or the circumstances, even though said radar devices are installed and used according to instructions. Applied Concepts, Inc. specifically disclaims any liability for injury caused by the radar devices in all circumstances.



This is to certify that the Management System of:

# Applied Concepts, Inc. / Stalker Radar

855 E. Collins Blvd, Richardson, Texas USA 75081

has been assessed by TRC, Inc. and found to be in accordance with the requirements of the following:

ISO 9001:2015



The management system is applicable to the following scope:

Design, development, sale, assembly and distribution of speed radar, video and speed sensor equipment as well as software solutions for a broad range of applications including law enforcement, sport and industrial testing.

VP Of Accreditation
Vanessa Delisle
www.theregistrarco.com





Certificate Number TRC01089 Original Certification Date 11/05/2007 Current Term Issue Date 10/09/2020 Expiry Date 12/18/2023

1400 Preston Road, Suite 400, Plano, TX 75093 USA | 335 Laird Road, Unit 9, Guelph, ON N1G 4P7 CANADA

This certificate's validity is subject to the organization maintaining their system in accordance with TRC's requirements for systems certification. Validity may be confirmed by using the above TRC Express Verification Code.