

## CERTIFICATE OF ACCURACY

I hereby certify this STALKER® Speed Measuring Device.

Computing Unit: S.N. DE030266

Antenna #1: S.N. KC237280

Frequency 34.72 GHz

Power Density 0.6 mw/cm<sup>2</sup>

Antenna #2: S.N. KC237290

Frequency 34.72 GHz

Power Density 0.5 mw/cm<sup>2</sup>

Under my supervision, this Speed Measuring Device has been checked for accuracy and correct operation.

This STALKER® Speed Measuring Device is certified accurate within  $\pm 1$  mph ( $\pm 2$  km/h) in stationary mode, and/or  $\pm 2$  mph ( $\pm 3$  km/h) in moving mode.

The transmitter frequency of this speed measuring radar device has been tested and found to be within the prescribed limits as established by the Federal Communications Commission.

The measured Power Density of this speed measuring device has been tested and found to be below the ANSI Standard of 5.0 mw/cm<sup>2</sup> for this device.

All test instruments are traceable to NIST.

Date: 08/16/2023

Technician (signature)



Technician: Elaine Burns

Technician overseen by: Roland Rickerd

Applied Concepts, Inc. | Richardson, Texas 75081

006-0147-00 Rev P  
154706



## TUNING FORK CERTIFICATE

This Tuning Fork has been tested and found to oscillate at  $4,166 \pm 5$  Hertz at  $70^{\circ}\text{F}$  ( $21^{\circ}\text{C}$ ) resulting in a calibration signal of 40mph (64 km/h) when used with a Ka-Band Radar operating at 34.7 GHz. The instrument used to calibrate the tuning fork is traceable to NIST.

Operation from  $-22$  to  $+140^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ ) will result in a speed error of less than 0.5 mph,  $-0.0040$  mph/ $^{\circ}\text{F}$  (0.8 km/h,  $-0.0065$  km/h/ $^{\circ}\text{C}$ ).

Date 16 AUG 2023 Technician (signature) Todd L. Gardner  
Todd L. Gardner

Technician (name) \_\_\_\_\_

Serial # 427098

Applied Concepts, Inc.



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Richardson, Texas 75081

006-0411-00 Rev F

## TUNING FORK CERTIFICATE

This Tuning Fork has been tested and found to oscillate at  $2,614 \pm 5$  Hertz at  $70^{\circ}\text{F}$  ( $21^{\circ}\text{C}$ ) resulting in a calibration signal of 25 mph (40 km/h) when used with a Ka-Band Radar operating at 34.7 GHz. The instrument used to calibrate the tuning fork is traceable to NIST.

Operation from  $-22$  to  $+140^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ ) will result in a speed error of less than 0.5 mph,  $-0.0025$  mph/ $^{\circ}\text{F}$  (0.8 km/h,  $-0.0041$  km/h/ $^{\circ}\text{C}$ ).

Date 16 AUG 2023 Technician (signature) Todd L. Gardner  
Todd L. Gardner

Technician (name) \_\_\_\_\_

Serial # 316992

Applied Concepts, Inc.



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Richardson, Texas 75081

006-0410-00 Rev E