

# Certificate of Accuracy

03/09/2019

Counting Display: S.N. DE014678

Antenna #1: S.N. KC158450

Antenna #2: S.N. KC160093

## CERTIFICATE OF ACCURACY

I hereby certify this STALKER® Speed Measuring Device.

Computing Unit: S.N. DE014678

Antenna #1: S.N. KC158450

Frequency 34.72 GHz

Power Density 0.4 mw/cm<sup>2</sup>

Antenna #2: S.N. KC160093

Frequency 34.73 GHz

Power Density 0.4 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.

Technician (signature) 

Date: 02/25/2019

Technician: Hani Almikhlafi

Technician overseen by: Roland Rickard

Applied Concepts, Inc. | Richardson, Texas 75081

006-0147-00 Rev P  
70410

# Tuning Fork Certification

40 m.p.h.      34.7 Ghz

Serial # FB373024

## 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 FEB 21 2019 Technician (signature) Todd L. Gardner  
Technician (name) Todd L. Gardner

Serial # 373024

Applied Concepts, Inc.



Richardson, Texas 75081

006-0411-00 Rev F

# Tuning Fork Certification

25 m.p.h.      34.7 GHz

Serial # FA265636

## 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 FEB 21 2019

Technician (signature) Todd L. Gardner

Todd L. Gardner

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

Serial # 265636

Applied Concepts, Inc.



Plano, Texas 75074

006-0410-00 Rev.D