

22-47

CERTIFICATE OF ACCURACY

22-47

I hereby certify this STALKER® Speed Measuring Device.

Computing Unit: S.N. DE023405

Antenna #1: S.N. KC203825

Frequency 34.71 GHz

Power Density 0.4 mw/cm²

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

This STALKER® Speed Measuring Device is certified accurate within ± 1 mph (± 2 km/h) in stationary mode, and/or ± 2 mph (± 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/cm² for this device.

All test instruments are traceable to NIST.

Technician (signature)



Date: 10/27/2021

Technician: Hanan Almikhlafi

Technician overseen by: Roland Rickerd

Applied Concepts, Inc. | Richardson, Texas 75081

006-0147-00 Rev P

118681

TUNING FORK CERTIFICATE

22-47

This Tuning Fork has been tested and found to oscillate at $2,614 \pm 5$ Hertz at 70°F (21°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°C to 60°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 OCT 27 2021 Technician (signature) Todd L. Gardner

Todd L. Gardner

Technician (name) _____

Serial # 295547

Applied Concepts, Inc.



Richardson, Texas 75081

006-0410-00 Rev E

TUNING FORK CERTIFICATE

22-47

This Tuning Fork has been tested and found to oscillate at $4,166 \pm 5$ Hertz at 70°F (21°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°C to 60°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 OCT 27 2021 Technician (signature) Todd L. Gardner

Todd L. Gardner

Technician (name) _____

Serial # 403237

Applied Concepts, Inc.



Richardson, Texas 75081

006-0411-00 Rev F