



TC-1000 Radar Speed Sign

Reliable. Effective. Affordable

Display and Radar Specifications

YOUR SPEED Faceplate

- 36"W x 44"H YOUR SPEED faceplate with 6" high lettering
- Ideal for roads with traffic speeds of 40-95 mph
- MUTCD compliant colors and reflectivity
- Available in white, fluorescent yellow/green, and yellow

Speed Violator Alerts

- Standard alerts include: Speed display | SLOW DOWN
- Speed display flash rates: MUTCD flash (approx. 55-60 fpm), Slow flash (approx. 100 fpm), Fast flash of actual speed (approx. 140 fpm)
- Display speed and word message alert alternately or individually, based on speed settings

LEDs

- 2 digits, 17" high super bright amber full matrix LEDs (life up to 100,000 hours)
- Laser cut flat black mask enhances visibility of LED display when illuminated, and ensures completely dark display when LEDs are off
- Easily readable up to 1000 feet
- Display brightness control: Automatic intensity adjustment to ambient light conditions

Radar

- Type: K Band, single direction Doppler radar, FCC part 15 compliant; no license required
- Sensor Range: Detects vehicles up to 1200 feet
- Beam Width: 12 degrees, +/- 2 degrees
- Operating Frequency: 24.125 GHz, +/- 50 MHz
- Accuracy: +/- 1.0 mph
- Speed Detection Range: 5 - 127 mph

Power Options / Battery Specifications

TC-1000S (Solar Powered)

- Operates 24/7 with solar power supply
- Solar Panel Output: 75 watt (27.5" x 26.5")
- Power Supply: Two 12-volt, 18 amp/hour AGM batteries (UL recognized); provides up to 14 days of back-up operation on fully charged batteries
- Solar Charger: Fully integrated charge controller with continuous monitoring and data logging of solar output and battery charge status. Charger and battery characteristics matched to operate over the sign's operating temperature range.
- Low battery cut-off feature provides intelligent battery management
- Battery Status: Check battery charge levels and solar amperage via Wi-Fi
- Power Consumption: < 2.5 amps (24w) in active mode; Idle mode < 1/2 watt
- Circuit Breaker: Multi-circuit, 3x 10 amp fuses
- Pole Mount Solar Bracket: Side of pole mount with adjustable angle bracket

TC-1000A (AC Powered)

- Operates 24/7 with AC power supply
- Power Supply: Hard wire to 100V-240V power supply
- Power Consumption: < 2.5 amps (24w) in active mode; Idle mode < 1/2 watt
- Circuit Breaker: Multi-circuit, 5 amp fuses



TC-1000 with 17" LED display



Heavy duty aluminum housing



3/8" Bashplate protects LEDs



Individual cones for each LED



Certified Quality System
ISO 9001:2015



MUTCD Compliant
Radar Speed Signs



Proudly Engineered &
Manufactured in the USA

Electronics

- All power inputs are fused and reverse polarity protected
- All circuit boards are conformally coated for extra protection
- Sign has automatic reset and watch-dog circuitry to return to normal operation without user intervention

Housing Specifications

Radar Speed Sign Housing

- Dimensions: 22.2"H x 32.5"W x 5.25"D
- Thickness: .1875" to .25" thick, heavy-duty aluminum with white powder coat finish
- NEMA 4 level compliant
- Humidity Maximum: 100%
- Non-sealed and ventilated
- Seamless construction with no welding
- Single-piece cast aluminum housing design means no separate battery box to mount



Bashplate™ with Integrated LED Reflectors

- Internal .375" aluminum shield over LED display to protect components from abuse or vandalism
- Directional beam technology: Individual holes for each LED focus and reflect light toward the road, providing the highest quality viewable display with minimum energy usage

Polycarbonate Display Cover

- .25" thick protective sheet covers entire display area
- Abrasion, graffiti and shatter resistant; UV protection

Weight

- TC-1000S (Solar Powered): 72 lbs. (98 lbs. with batteries)
- TC-1000A (AC Powered): 72 lbs.

Operating Temperature

- Operating Temperature: -40°F to +160°F

Standard Features

Standard Programming

- Setup functions: Easy to follow menu, no mechanical switches to operate
- Daily timers: Allow 4 on/off timer settings per day, also by day of week. Settings allow lower speed limits for school zone times and for late night display shutoff. (Optional Advanced Scheduler available with all models)
- Stealth mode: Display on-off feature allows traffic data collection continue even when the display is off
- "Possum Switch" activation feature allows the sign to "play dead" for 30 minutes if attacked with force
- Maximum speed cutoff: Prevents unwanted high speed displays; up to 99 mph; discourages "racing" of sign. Choice of flashing matrix, or LED display cutoff.

Wi-Fi Enabled

- No internet required. Manage your radar speed sign with phone, tablet, or laptop.
- Allows for quick and easy sign operation/data download from most web enabled devices
- WPA2 encrypted security; Password protection
- Connection range up to 300 feet from sign
- OTA Software Updates (over-the-air): Allows the wireless delivery of software updates and upgrades directly to the radar speed sign

Warranty

- 2 year warranty on parts and labor, including batteries. Exceptions: Does not cover malicious abuse, theft, or damage due to unauthorized modification. Optional third year warranty extension available.

Traffic Data Reporting Option

StreetSmart (optional)

- Traffic data reporting software to report, organize and analyze speed and traffic data. The information collected by the radar speed sign is loaded into Excel™ ready .csv files, and can generate 35 charts and graphs.

Traffic Data Storage Capacity:

- Stores data on up to 5 million vehicles; Retains data for retrieval for 12 months.