

TC-500 Radar Speed Sign Specifications

Power Options:

- **TC-500S (Solar):** Dual 12-volt ,18 amp/hour AGM batteries with solar panel
- **TC-500A (AC):** Hard wire to 100V-240V power supply
- **TC-500B (Battery):** Dual 12-volt ,18 amp/hour AGM batteries; includes AC adapter/charger
- **Power Consumption:** < 2.5 amps (24w) in active mode; Idle mode < 1 watt; Circuit Breaker: Multi-circuit, 5 amp fuses



YOUR SPEED Faceplate

- Full size 24"w x 21"h YOUR SPEED faceplate with 3" lettering
- MUTCD compliant colors and reflectiveness
- Oversized 24" w x 26" h faceplate optional with 4" lettering
- Ideal for 10 MPH to 40 MPH speed limit roads
- Available in white, fluorescent yellow or safety orange



Standard Programming

- On/Off Timer Options: 4 timers per day, also by day of week. Settings allow lower speed limits for school zones.
- Display On/Off: Allows traffic data collection to continue even when display is off.
- Display Brightness Control: Auto adjusts to light conditions, up to 100 levels.
- Setup Functions: Easy to follow menu- software managed, no mechanical switches to operate.
- Maximum Speed Cutoff: Prevents unwanted high speed displays, up to 99 mph; discourages excessive speeds to 'test' sign. Choice of flashing matrix, or LED display cutoff.
- Date/Time Control: Battery backed real-time clock / calendar

Speeding Alert

- 2 speeds of flashing LEDs to notify drivers that are exceeding the speed limit

Operating Temperatures

- -40° F to +138° F.

BluetoothTM Communication

- Allows secure wireless operation of radar sign and data collection directly from laptop from the comfort of a nearby vehicle.

Housing

- Dimensions: 15.8" H x 22.2"W x 5.25"D
- Thickness: 1875" to .25" aircraft aluminum with white powder coat finish
- Provides maximum protection from elements & vandalism
- NEMA 4R level compliant
- Non-sealed and ventilated
- Humidity Maximum: 100%



BASHPLATETM with LED cones

- Internal .375" aluminum shield to protect components from abuse or vandalism
- Beveled design protects LEDs and internal components by dissipating any force inflicted on the sign
- Conical holes for each LED focus and reflect light toward the road, providing the highest quality viewable display with minimum energy usage.



LEDs

- 2 digits, 12" high super bright amber LEDs (life up to 100,000 hours) with directional beam technology
- Automatic intensity adjustment to ambient light conditions for maximum visibility
- Provides directed viewing of display to oncoming traffic



GE LexanTM Display Cover

- .25" thick protective cover
- Abrasion resistant
- Graffiti resistant
- UV resistant
- Shatter resistant



Radar

- Type: K Band, single direction Doppler radar, FCC part 15 compliant
- Sensor Range: Sensor range up to 1000'
- Beam Width: 12 degrees, +/- 2 degrees
- Operating Frequency: 24.125 GHz, +/- 50 MHz
- Accuracy: +/- 1.5 mph
- Speed Detection Range: 5 - 127 mph

TC-500 Radar Speed Sign Specifications

Mini-SD Memory Card

- System Storage Capacity: stores data on up to 5 million vehicles

Weight

- TC-500A (AC): 32 lbs.
- TC-500B (Battery): 56 lbs. (includes 2 batteries)
- TC-500S (Solar): 56 lbs. (includes 2 batteries)

Warranty

- Two 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.

Optional Features

- **StreetSmart:** Traffic statistics software to report, organize and analyze speed and traffic data
- **EZ Comm:** Cellular based remote sign management system with 365 day calendar
- **External Device Trigger Option:** System that activates external devices from the radar speed sign based on time and/or speed, or temperature.

Solar Power

- Solar Panel Output: 40 watt
Voltage at Pmax = 16.9V
Current at Pmax = 2.34 Amps
- Optional Upgrade:
Solar Panel: 65 watt
Voltage at Pmax = 17.4V
Current at Pmax = 3.75 Amps
- Batteries: Two 12-volt, 18 amp/hour AGM batteries (UL recognized). Designed to slide into housing slots without any danger of movement.
- Battery Controller: Manages the flow of solar energy input (up to 85w) from solar panel to battery.
- Pole Mount: Side pole mount with 45° angle bracket for effective solar charging.
- Software Control: SmartCharge® software prevents overcharging and intelligent shutdown when battery falls below acceptable voltage; auto restart when sufficiently recharged.
- Battery Status: Via Bluetooth™, can check battery charge levels and solar amperage.

