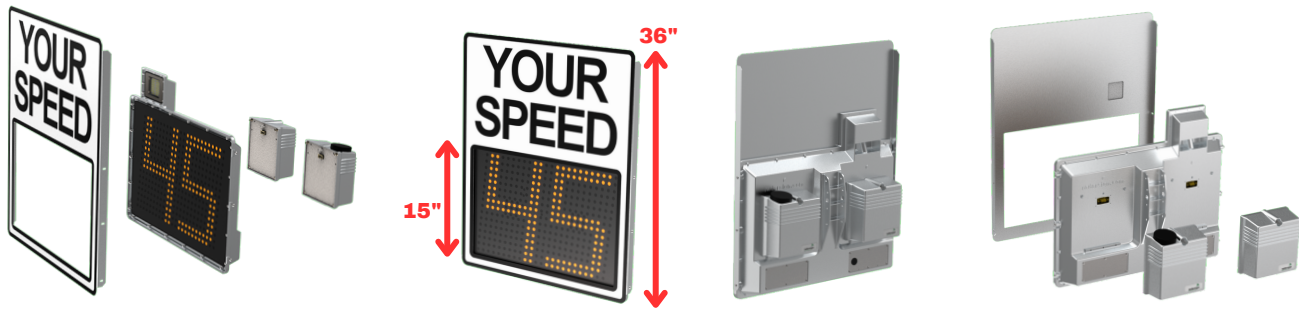


## TC-800 RADAR SPEED SIGN



### LED DISPLAY

- Speed Display Numbers: 15" tall speed display numbers; capable of showcasing 2 or 3 digits, with readability up to 800 feet
- Ideal Speed Range: Ideal for roads with traffic speeds ranging from 35 to 80 mph
- LED Configuration: Super bright amber LEDs in full matrix design; Life up to 100,000 hours
- Enhanced Visibility Design: Laser cut flat black mask enhances visibility of LED display when illuminated; Ensures completely dark display when LEDs are off
- Adjustable Display Brightness: Display brightness fully automatic or user adjustable

### SPEED VIOLATOR ALERTS

- Standard Alerts: Include SPEED with 3 flash rate options; Enhanced font; SLOW DOWN; TOO FAST
- Alert Options: Option to display speed and word message alerts alternately or individually based on speed settings
- Speed Display Flash Rates: MUTCD flash (approx. 55-60 fpm); slow flash (approx. 90 fpm); fast flash (approx. 140 fpm)
- Optional Message Alerts: Available options include SHARP CURVE; right or left facing chevrons; SCHOOL ZONE; smiley face; FINE \$\$\$ (not available with cellular signs)
- Optional Strobe Alerts: Available options include red strobe alert, blue strobe alert, alternating red/blue strobe alert (police flash), and white strobe alert (capable of simulating a camera flash)

### YOUR SPEED FACEPLATE

- Dimensions: 30"W x 36"H with 6" high lettering
- Color Options: Available in white, yellow, fluorescent yellow/green, and safety orange

### SOLAR POWER MODEL

- Operation: Operates 24/7 with solar power supply
- Power Supply: Two external 12-volt, 18 amp/hour AGM batteries - 1 Smart battery with Wi-Fi and cellular connectivity, and 1 standard battery (UL recognized); Provides up to 14 days of back-up operation on fully charged batteries
- Power Consumption: < 2.0 amps (24w) at maximum display intensity; Idle mode: < 1/2 watt
- Circuit Breaker: Multi-circuit; 3 x 10 amp fuses
- Battery Status Monitoring: Check battery charge levels and solar amperage via Wi-Fi or cellular
- Low Battery Cut-Off Feature: Provides intelligent battery management, optimizing the performance and longevity of the battery
- Charger and Battery Characteristics: Matched to operate within the sign's operating temperature range
- Solar Panel Output: 50 watt standard; Optional upgrade: 80 watt panel
- Solar Charger: Fully integrated charge controller that continuously monitors and logs data regarding solar output and battery charge status

### AC POWER MODEL

- Operates 24/7 with AC power supply
- Power Supply: Hard wire to 100 VAC-240 VAC
- Power Consumption: < 2.0 amps (24w) at maximum display intensity; Idle Mode: < 1/2 watt
- Circuit Breaker: Multi-circuit, 10 amp fuse

### BATTERY BACKUP IN THE EVENT OF POWER OUTAGE

- Battery Power Supply: One 12-volt, 18 amp/hour AGM battery (UL recognized); Provides up to 7 days of back-up operation when fully charged
- Battery Status Monitoring: Check battery charge levels and solar amperage via Wi-Fi or cellular
- Low Battery Cut-Off Feature: Provides intelligent battery management, optimizing the performance and longevity of the battery
- Charger and Battery Characteristics: Matched to operate within the sign's operating temperature range

### ELECTRONICS

- All power inputs are fused and reverse polarity protected
- All circuit boards are conformally coated for extra protection
- Automatic reset and watch-dog circuitry ensure the sign returns to normal operation without the need for user intervention



Certified Quality System  
ISO 9001:2015



MUTCD Compliant  
Radar Speed Signs



Proudly Engineered &  
Manufactured in the USA

## **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; 8-198 kph

## **RADAR SPEED SIGN HOUSING**

- Industrial Design: Single-piece cast aluminum housing; Seamless construction with no welding; Provides maximum protection from the elements and vandalism
- Thickness: Constructed from heavy-duty aluminum ranging in thickness from 0.1875" to 0.25"
- Compliance Standards: IP65 compliant; NEMA 4 level compliant
- Humidity Maximum: 100%; Non-sealed and ventilated
- Dimensions: 20.75"H x 30"W x 3.62"D
- External-Mounted Battery/AC Accessory Housings: Allow for easy installation and replacement of batteries when needed
- Battery/AC Accessory Housing Dimensions: 9"H x 8.3"W x 4"D
- Mounting Bracket: The radar speed sign comes with a pivot mounting bracket included. The sign housing bracket is directly integrated into the radar speed sign housing, simplifying installation as only the pole bracket requires installation.

## **WEIGHT & OPERATING TEMPERATURE**

- TC-800 Solar Power Model: Weight sign housing only - 49 lbs.; Weight sign housing with batteries attached - 83 lbs.
- TC-800 AC Power Model: Weight sign housing only - 49 lbs.; Weight sign housing w/battery & AC accessory housing attached-71 lbs.
- Operating temperature: -40°F to +160°F

## **STANDARD FEATURES ON ALL RADARSIGN MODELS**

### **BASHPLATE™ WITH INTEGRATED LED REFLECTOR CONES**

- Heavy duty aluminum shield over LED display to protect components from abuse or vandalism
- Radarsign's proprietary directional beam technology includes custom reflectors positioned around each LED. This unique design magnifies the intensity of the light, ensuring the highest quality viewable display with minimal energy usage.

### **POLYCARBONATE DISPLAY COVER**

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

### **WI-FI ENABLED**

- Radar speed sign emits it's own Wi-Fi signal, eliminating the need for an internet connection. Manage sign with smart phone, tablet, or laptop; Allows for quick, easy sign operation and data download from most web enabled devices.
- Connection range up to 300 feet from sign
- WPA2 encrypted security; Unique password protected
- OTA Software Updates (over-the-air): Allow the wireless delivery of software updates and upgrades directly to the radar sign
- Speed is 10x faster and has 10x the range of Bluetooth

### **STANDARD PROGRAMMING**

- Setup Functions: Easy-to-navigate digital menu; No mechanical switches to operate
- Daily Timers: Allow up to 5 on/off timer settings per day, including 4 customizable timers in addition to the standard setting. Settings allow for lower speed limits for school zone times.
- Stealth Mode: This feature allows the display to be turned off while still allowing continuous traffic data collection. This ensures data monitoring even when the display is not active.
- Possum Switch™: In the event of a forceful attack, the sign can simulate inactivity or "play dead" for a duration of 30 minutes. This feature helps protect the sign from malicious tampering or damage.
- Maximum Speed Cutoff: Designed to prevent the sign from displaying excessively high speeds, this feature curbs any attempts at speeding towards or "racing" the sign. Users have the option to choose between flashing dashes or an LED display cutoff.

**WARRANTY** : 2 years on parts and labor including batteries; Exceptions: Does not cover malicious abuse, theft, or damage due to unauthorized modification.

## **OPTIONAL DATA REPORTING, MANAGEMENT AND SCHEDULING FEATURES**

**STREETSMART TRAFFIC DATA COLLECTION & REPORTING SOFTWARE**: This feature comes with a lifetime license for a one-time charge, eliminating recurring fees. It is licensed per sign and allows the download, reporting, organization, and analysis of speed and traffic data recorded by the radar speed sign. Users can generate 35 charts and graphs with Excel™ macro. The Traffic Data Storage Capacity allows data storage for up to 5 million vehicles, retaining data for 12 months in the sign before overwriting the oldest data first.

**CLOUD SERVICE**: If purchased, a cellular modem allows cloud accessibility from anywhere with an internet connection. It enables remote management of sign settings for your entire network of signs. Additionally, it uploads daily traffic statistics to the Radarsign Cloud server (requires the purchase of a Streetsmart data license). This feature also provides alerts in case of low battery or interrupted connection.

**ADVANCED SCHEDULER**: Date-driven program enables the pre-programming of multiple years and schedules for radar speed signs. This functionality is particularly beneficial for scheduling in school zones or areas where events occur regularly.