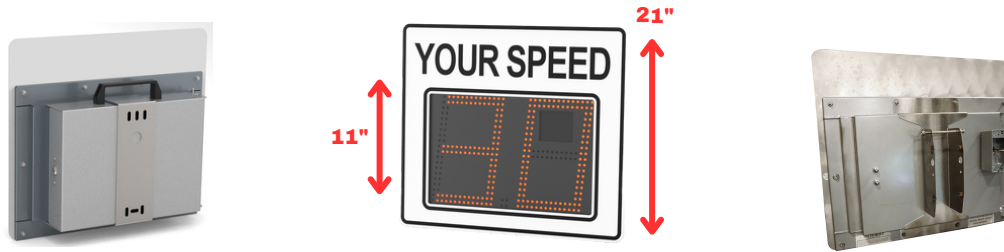


## TC-400 RADAR SPEED SIGN



### LED DISPLAY

- Speed Display Numbers: 11" tall speed display numbers; capable of showcasing 2 digits, with readability up to 400 feet
- Ideal Speed Range: Ideal for roads with traffic speeds ranging from 5 to 45 mph
- LED Configuration: Super bright amber LEDs; 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
- Speed Display Flash Rates: MUTCD flash (approx. 55-60 fpm); slow flash (approx. 90 fpm); fast flash (approx. 140 fpm)
- Optional Strobe Alerts: Available options include red strobe alert; blue strobe alert; alternating red/blue strobe alert (police flash); white strobe alert (capable of simulating a camera flash)

### YOUR SPEED FACEPLATE

- Dimensions: 24"W x 21"H with 3" high lettering
- Color Options: Available in white, yellow, fluorescent yellow/green, and safety orange

### BATTERY POWER MODEL

The battery-powered model features a modular design comprising a front radar speed sign housing and a rear battery housing. These components can be detached from each other, allowing the sign to be easily moved and used in different locations.

- Operation: Operates +/- 2 weeks on 2 fully charged batteries; 10 hour recharge period
- Power Supply: Dual 12-volt, 20 amp/hour, Lithium Iron Phosphate (LiFePO4) batteries with 3A charger
- Power Consumption: < 2.0 amps (24w) at maximum display intensity; Idle mode: < 1/2 watt
- Batteries have internal short circuit, over current, under and over voltage protection
- Battery Status Monitoring: Check battery charge levels via Wi-Fi

### AC POWER MODEL

The AC-powered model features a radar speed sign housing only and is specifically wired for an AC power connection. This model is designed for use in parking decks and indoor warehouse locations.

- Operation: 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

### 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

### 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



Certified Quality System  
ISO 9001:2015



MUTCD Compliant  
Radar Speed Signs



Proudly Engineered &  
Manufactured in the USA

### **RADAR SPEED SIGN HOUSING**

- Thickness: Constructed with .185" thick aluminum, silver powder coat finish
- Compliance Standards: NEMA 3R level compliant
- Humidity Maximum: 100%
- Dimensions: 16.25"H x 22.75"W x 2.375"D

### **BATTERY POWER MODEL - HOUSING AND BATTERIES**

- Thickness: Constructed with .185" thick aluminum, silver powder coat finish
- Dimensions: 12.5"H x 17"W x 3.625"D
- The housing can hold up to two field exchangeable 12-volt batteries, with each battery weighing 6 lbs.

### **MOUNTING BRACKET**

For the Battery Power Sign: Universal Mounting Bracket (Dimensions: 12.75"H x 4.5"W x 2.9"D)

- Versatile Mounting Options: Enables strapping, banding, pipe clamps, or bolting to almost any size or style of pole
- Efficient Installation: Pre-installed brackets facilitate sign installation in less than a minute with no tools required

For the AC Power Sign: Stainless Steel Universal Pivot Mounting Bracket

- Pivot Range: Allows an 8-degree pivot (4 degrees up or down)
- Installation Flexibility: Designed for mounting radar speed signs on any pole using bolts or banding

### **WEIGHT & OPERATING TEMPERATURE**

- TC-400 Battery Power Model: Weight radar speed sign: 19 lbs.; Weight battery housing: 10 lbs.; Weight battery: 6 lbs. each; Total Weight when all pieces are installed: 41 lbs. (with 2 batteries)
- TC-400 AC Power Model: Weight 23 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; The warranty period is inapplicable to TC-400 batteries which we warrant for a period of one (1) year; 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.

**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.