

## TC-800 Full Matrix Radar Speed Sign Specification Sheet

### LED Display

- 15" tall speed display numbers | 2 or 3 digit capable | Speed digits easily readable up to 800 ft.
- Ideal for roads with traffic speeds of 35-80 mph
- Super bright amber LEDs in full matrix design | Life up to 100,000 hours
- Laser cut flat black mask enhances visibility of LED display when illuminated | Ensures completely dark display when LEDs are off
- Display brightness fully automatic or user adjustable

### Speed Violator Alerts

- Standard alerts: SPEED (3 flash rate options) | Enhanced font | SLOW DOWN | TOO FAST
- 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:* SHARP CURVE | Right or left facing chevrons | SCHOOL ZONE | Smiley face | FINE \$\$\$ (*Custom alert*) | Custom Message Alert available on request - Not available with cellular signs
- *Optional strobe alerts:* red strobe alert | blue strobe alert | alternating red/blue strobe alert (police flash) | white strobe alert (can simulate a camera flash)



### YOUR SPEED Faceplate

- 30"W x 36"H YOUR SPEED faceplate with 6" high lettering
- Available in white | yellow | fluorescent yellow/green | safety orange

### 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 | 8-198kph

### 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

### TC-800 Solar Power

- Operates 24/7 with solar power supply
- Power Supply: Two 12-volt, 18 amp/hour AGM batteries- 1 Smart battery with Wi-Fi and cellular connectivity, 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
- Battery status: Check battery charge levels and solar amperage via Wi-Fi or cellular
- Low battery cut-off feature provides intelligent battery management
- Solar panel output: Standard panel 50 watt | Optional upgrade 80 watt panel
- Solar charger: Fully integrated charge controller provides continuous monitoring and data logging of solar output/battery charge status
- Charger and battery characteristics matched to operate within the sign's operating temperature range

### TC-800 AC Power

- Operates 24/7 with AC power supply
  - Power supply: Hard wire to 100 VAC-240 VAC
  - Power consumption: < 2.0 amp (24w) at maximum display intensity
  - Idle mode: < 1/2 watt
  - Circuit breaker: Multi-circuit, 10 amp fuse
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- 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 on fully charged batteries
  - Battery status: Check battery charge levels and solar amperage via Wi-Fi or cellular
  - Low battery cut-off feature provides intelligent battery management
  - Charger and battery characteristics matched to operate within the sign's operating temperature range

### Weights and Operating Temperature

- TC-800 solar power radar sign: Sign housing only - 49 lbs. | Sign housing with batteries attached - 83 lbs.
- TC-800 AC power radar sign: Sign housing only - 49 lbs. | Sign housing with battery & AC accessory housing attached - 71 lbs.
- Operating temperature: -40°F to +160°F

## Radar Speed Sign Housing

- Dimensions: 20.75"H x 30"W x 3.62"D
- Thickness: .1875" to .25" thick, heavy-duty aluminum
- IP65 compliant | NEMA 4 level compliant
- Humidity Maximum: 100% | Non-sealed and ventilated
- Provides maximum protection from the elements and vandalism
- Single piece cast aluminum housing design | Seamless construction with no welding
- External mounted battery/AC accessory housings allows for easy installation and replacement of batteries when needed
- Battery housing dimensions: 9"H x 8.3"W x 4"D
- Pivot mounting bracket included. The sign housing bracket is built directly into the radar speed sign housing so only the pole bracket requires installation.



## Standard Features on ALL Radarsign Brand Models

### Bashplate™ with Integrated LED Reflectors

- Heavy duty aluminum plate over LED display to protect components from abuse or vandalism
- Directional beam technology, Radarsign's proprietary design, includes custom reflectors around each LED, magnifying the intensity of the light and providing the highest quality viewable display with minimum energy usage

### Polycarbonate Display Cover

- .25" thick (6mm) protective shield 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 | No internet required | Manage sign with smart phone, tablet, or laptop
- Connection range up to 300 feet from sign
- Allows for quick and easy sign operation and data download from most web enabled devices
- Speed is 10x faster and has 10x the range of Bluetooth
- WPA2 encrypted security | Unique password protected
- OTA software updates (over-the-air) allow wireless delivery of software updates and upgrades directly to the radar sign

### Standard Programming

- Setup functions: Easy to follow digital menu | No mechanical switches to operate
- Daily timers: Allow 5 on/off timer settings per day (4 timers plus the standard setting), also by day of week | Settings allow for lower speed limits for school zone times
- Stealth mode: Display on/off feature allows traffic data collection to continue even when the display is off
- Possum Switch™: Vandalism discouraging feature allows the sign to "play dead" for 30 minutes if attacked with blunt force
- Maximum speed cutoff: Feature prevents "racing" of sign at high speeds | Choice of dashes or LED display cutoff

### Warranty

- 2 year warranty on parts and labor, including batteries | *Exceptions:* Does not cover malicious abuse, theft, or damage due to unauthorized modification

## Optional Scheduling and Data Reporting Features

### Cloud Service (3-month trial included at no charge)

Built in cellular modem is cloud accessible from anywhere internet is available | Allows remote management of sign settings for entire network of signs | Uploads daily traffic statistics to Radarsign Cloud server (*requires the purchase of Streetsmart data license*) | Provides alerts if batteries run low, or connection is interrupted.

### Advanced Scheduler

Date driven program allows pre-programming multiple years and multiple schedules for your radar speed signs | Especially useful for school zone scheduling or in areas where events occur on a regular basis.

### Streetsmart Traffic Data Collection & Reporting Software

Lifetime license | One time charge | No recurring fees | Licensed per sign | Download, report, organize, and analyze speed and traffic data recorded by the radar speed sign | Generate 35 charts and graphs with Excel™ macro | Traffic Data Storage Capacity: Stores data on 5 million vehicles | Retains data for 12 months in sign before writing over oldest data first.



Certified Quality System  
ISO 9001:2015



MUTCD Compliant  
Radar Speed Signs



Proudly Engineered &  
Manufactured in the USA