One Sign... Multiple Applications

radarsign®
MAKING ROADS SAFER

TC-600 Full Matrix Radar Speed Sign
Your Traffic Calming POWER Tool

YOUR SPEED SLOW DOWN

YOUR SPEED TOO FAST

YOUR SPEED SHARP CURVE

YOUR SPEED :)

YOUR SPEED >>>

YOUR SPEED 30

YOUR SPEED <<<

YOUR SPEED FINE $180

YOUR SPEED 43

YOUR SPEED 35

YOUR SPEED 27

Certified Quality System ISO 9001:2015

MUTCD Compliant Radar Speed Signs

Proudly Engineered & Manufactured in the USA

Display and Radar Specifications

YOUR SPEED Faceplate
- 28"W x 33"H YOUR SPEED faceplate with 4" high lettering
  (Optional oversized 30"W x 36"H available)
- Ideal for roads with traffic speeds of 5-70 mph
- MUTCD compliant colors and reflectivity
- Available in white, fluorescent yellow/green, safety orange, and yellow

Speed Violator Alerts
- Standard alerts include: Speed display | SLOW DOWN | TOO FAST
- *Optional* alert choices: SHARP CURVE | chevrons (right or left facing)| smiley face | fine alert | alternating red/blue alert, all red alert, all blue alert, or white alert (can flash as a strobe, or simulate a camera flash)
- 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 alerts alternately or individually, based on speed settings

LEDs
- 2 digits (3 digits up to 185 KPH), 13" 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 speed digits up to 650 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-600S (Solar Powered)
- Operates 24/7 with solar power supply
- Solar Panel Output: 50 watt standard; 75 watt optional
- 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: < 2.0 amps in active mode; Idle mode < 1/2 watt
- Circuit Breaker: Multi-circuit, 3x10 amp fuses
- Pole Mount Solar Bracket: Side of pole mount with adjustable angle bracket

TC-600A (AC Powered)
- Operates 24/7 with AC power supply
- Power Supply: Hard wire to 100V-240V power supply
- Power Consumption:< 2.0 amps in active mode; 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
- Sign has automatic reset and watch-dog circuitry to return to normal operation without user intervention

Housing Specifications

Radar Speed Sign Housing

- Dimensions: 18.5"H x 26.25" W x 5.0"D
- Thickness: .1875" to .25" thick, heavy-duty aluminum
- NEMA 4 level compliant
- Humidity Maximum: 100%
- Non-sealed and ventilated
- Provides maximum protection from the elements and vandalism
- 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-600S (Solar Powered): 41 lbs., (67 lbs. with batteries)
- TC-600A (AC Powered): 41 lbs.

Operating Temperature

- Operating Temperature: -40ºF to +160ºF

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.

Hyper-Alerts™
Compact Flash Technology

Hyper-Alerts™ are compact clusters of LED lights built right into the "YOUR SPEED" faceplate of the TC-600 model, delivering a significantly more compact solution than traditional beacons. By clustering the LEDs into a smaller footprint, the same light from a typical flasher becomes an urgent notification for the driver.

Application
Perfect for use in pedestrian-heavy environments such as school zones, business campuses, military bases and anywhere else there is an urgency to slow drivers.

Raised Awareness
The LED clusters deliver the same luminescence as a 12" beacon, only in a more compact surface. This results in an "*impossible to ignore alert*" even 1000 feet from the sign.

Cost Effective
Instead of having to choose between either flashing beacons or a radar speed sign, now you can have both alerts for slightly more than the price of either one. The LED clusters are built right into the oversized (30"W x 36H") YOUR SPEED faceplate resulting in a more compact system that is far easier to install. This upgrade offers a cost-effective solution to provide the maximum traffic calming effect on speeding drivers.

Design
➤ Industrial construction with sleek design is in stark contrast to the individual, bulky, piece-meal look of traditional beacons
➤ Dual high-intensity amber LED clusters
➤ Meets ITE guidelines for brightness use in school zones
➤ LED luminosity: 3000 mcd minimum – 12000 mcd maximum
➤ 68 LEDs per alert, highly viewable at 1000 feet
➤ Flash patterns: MUTCD standard 60 fpm, Wig-Wag (alternating); Custom patterns available

Scheduling Flexibility
➤ Programmable for an entire year in advance, by date and time, using our Advanced Scheduler
➤ Hyper-Alerts™ can be activated based on time of day, by speed, or by both

Solar Power Output with Hyper-Alert™ Option
➤ 50 watt solar panel for maximum 4 hour daily operation
➤ 75 watt for maximum 10 hour daily operation
➤ 90 watt for 24/7 operation
➤ 120 watt for high volume traffic and cold temperatures

Weight
➤ TC-600S with Hyper-Alerts™: 47 lbs., (73 w/ batteries)
➤ TC-600A (AC Powered) with Hyper-Alerts™: 47 lbs.

The Hyper-Alert™ option is available on a new TC-600 sign, or as a retrofit of an existing sign;
Existing sign must be returned to Radarsign for the retrofit.