

TC-1100 Full Matrix Radar Speed Sign Specification Sheet

LED Display

- 18" tall speed display numbers | 2 or 3 digit capable | Speed digits easily readable up to 1100 ft.
- Ideal for roads with traffic speeds of 45-100 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 48"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-1100 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 80 watt | Optional upgrade 100 watt or 120 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-1100 AC Power

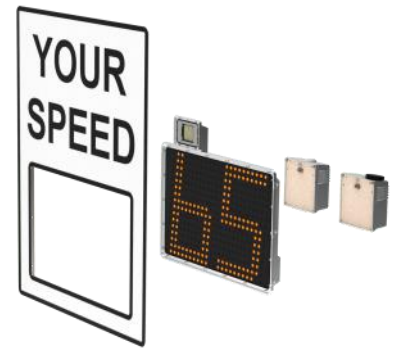
- Operates 24/7 with AC power supply
 - Power supply: Hard wire to 100 VAC-240 VAC
 - Power consumption: < 2.0 amp (24w) at maximum display intensity
 - Idle mode: < 1/2 watt
 - Circuit breaker: Multi-circuit, 10 amp fuse
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- Battery backup in the event 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-1100 solar power radar sign: Sign housing only - 49 lbs. | Sign housing with batteries attached - 83 lbs.
- TC-1100 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