TC-400 Radar Speed Sign
Specification Sheet

TC-400 Battery Power Model

The battery model has a modular design with a front radar speed sign housing and a rear battery housing that detach from each other so the sign can be easily moved and used in different locations.

Power
- 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 (20w) at max display intensity
- Idle mode: < 1/2 watt
- Batteries have internal short circuit, over current, under and over voltage protection
- Battery Status: Check battery charge levels via Wi-Fi

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

LED Display
- 11" tall speed display numbers | 2 digit capable
- Speed digits easily readable up to 400 feet
- Ideal for roads with traffic speeds of 5-55 mph
- Super bright amber LEDs | 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)
- Speed display flash rates: MUTCD flash (approx. 55-60 fpm) | slow flash (approx. 90 fpm) | fast flash (approx. 140 fpm)
- *Optional* strobe alerts - *Choice of one:* alternating red/blue strobe alert or white strobe alert (can simulate a camera flash)

YOUR SPEED Faceplate
- 24"W x 21"H YOUR SPEED faceplate with 3" high lettering
- Manufactured with highest grade reflectivity backing
- 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 | 8-198 kph

TC-400 AC Power Model

The AC model has a radar speed sign housing only and is wired for an AC power connection | For use in parking decks and indoor warehouse locations.

Power
- Operates 24/7 with AC power supply
- Power Supply: Hard wire to 100V-240V power supply
- Power Consumption: < 2.0 amps (20w) at maximum display intensity
- Idle mode: < 1/2 watt
- Circuit Breaker: Multi-circuit,10 amp fuse

TC-400 with Speed and Strobe Alerts

Certified Quality System ISO 9001:2015

MUTCD Compliant Radar Speed Signs

Proudly Engineered & Manufactured in the USA

Radar Speed Sign Housing
➢ Dimensions: 16.25″H x 22.75″W x 2.375″D
➢ Thickness: .185″ thick aluminum, silver powder coat finish
➢ NEMA 3R level compliant
➢ Humidity Maximum: 100%

Battery Housing and Batteries *(battery power model only)*
➢ Dimensions: 12.5″H x 17″W x 3.625″D
➢ Thickness: .185″ thick aluminum, silver powder coat finish
➢ Holds up to two field exchangeable 12-volt batteries
➢ Battery weight: 6 lbs. each

Mounting Bracket
➢ Battery power sign: Universal mounting bracket (12.75″H x 4.5″W x 2.9″D | Allows strapping, banding, pipe clamps, or bolting to almost any size or style of pole | Sign installation takes less than one minute with pre-installed brackets | NO TOOLS required
➢ AC power sign: Stainless steel universal pivot mounting bracket | Allows 8 degree forward and back tilt | For use in mounting radar speed signs on any pole using bolts or banding

Weights & Operating Temperature
➢ TC-400 battery power radar speed sign and battery housing: 24 lbs. | with batteries 36 lbs.
➢ TC-400 AC radar speed sign: 15 lbs.
➢ Operating temperature: -40ºF to +160ºF

Standard Features on All Radarsign Brand Models
Bashplate™ with Integrated LED Reflector Cones
➢ Heavy duty aluminum shield over LED display to protect components from abuse or vandalism
➢ Directional beam technology, Radarsign's proprietary design, includes beveled cones 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 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 | 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 | Password protected
➢ OTA software updates (over-the-air) allow the 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™: Feature allows the sign to "play dead" for 30 minutes if attacked with force
➢ Maximum speed cutoff: Feature prevents "racing" of sign at high speeds | Choice of flashing dashes or LED display cutoff

Warranty
➢ 2 years on parts and labor, 1 year on batteries | *Exceptions:* Does not cover malicious abuse, theft, or damage due to unauthorized modification | *Optional* third year warranty extension available

Optional Scheduling and Data Reporting Features
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 that is 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

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info@radarsign.com   radarsign.com   678-965-4814

2 of 2

TC-400 Radar Speed Sign Spec Sheet MK0022 V22.01