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Radar-Speed Signs

Traffic calming in locations where vehicles regularly travel at unsafe speeds

- Configurable settings
- Choice of sizes and mounting options
- Battery or AC powered
- Optional 365-day timer

Commonly deployed in school zones, construction areas, high-accident areas and neighborhoods, Wanco speed signs provide a strong measure of traffic calming unmatched by other roadway signs. With a radar-triggered display, bright LED characters flash a vehicle's excessive speed, thereby encouraging the motorist to slow down.

Wanco radar-speed signs feature configurable settings and input for auxiliary equipment, such as caution beacons. Above the user-configured speed setting, the sign flashes the motorist's speed. At excessive speeds, the sign flashes a user-selected message. Below the speed limit, the display remains blank.

Displays are available with either 13- or 26-inch characters. Both sizes can display two characters for miles per hour and three characters for kilometers per hour. Optical lenses and sun shades over bright LED characters produce superior visibility.

Pole-mount kits provide advanced speed-display in an easy-to-use, fixed-mount system. A typical configuration includes the speed display, a control box, battery box, solar panel, and all necessary wiring. A regulatory speed limit sign is optional, as are a variety of auxiliary devices.

Sign specifications

Character size	Enclosure size, W x H x D	
13-inch	24 x 30 x 5 in.	(61 x 76 x 13 cm)
26-inch	36 x 36 x 5 in.	(91 x 91 x 13 cm)

Power system options

Commercial power	110/120 VAC, hard-wired
Battery/solar	12 VDC battery power, 65 W solar-panel charging system, 70 Ah battery capacity

Small sign

Large sign

Radar-Speed Trailers
with Large Full-Matrix Display

Wanco® Radar-Speed Signs slow traffic and save lives

- Bold, highly visible, 26-inch LED numbers
- Selectable speed settings
- Streamlined see-through design
- Regulatory speed limit sign with changeable numbers
- Energy-efficient operation for long run times

Wanco® Radar-Speed Trailers feature the largest portable speed sign available today. The giant LED display shows vehicle speed in bold 26-inch characters that are highly visible, warning motorists to slow down by flashing their excessive speed.

Often deployed in school zones, work zones and high-incident areas, these signs provide a degree of traffic calming unmatched by other roadway signs. Formal studies have shown that speeding drivers respond by slowing down to legal limits when their actual speed is displayed on an electronic sign.

Studies also indicate that some drivers "test" radar-based speed displays by driving very fast. To address this danger, Wanco speed signs do not display excessive speed, but instead employ a full-matrix display to flash a message or symbol at drivers, to indicate they are going much too fast.

The selectable excessive-speed message flashes SLOW DOWN or any of several preconfigured graphical symbols, together with optional red-and-blue or white flashing lights. The display can show vehicle speed in miles per hour (one or two digits) or kilometers per hour (up to three digits).

A regulatory sign above the display features changeable speed-limit numbers for easy setup in any speed zone. The electronic display includes visors and shades for superior visibility. Trailers feature a see-through design that puts pedestrians and workers in view, improving their safety.

Four Trailer Sizes with multiple R2-1 sign sizes

Compact Trailer for neighborhoods and low speeds

Vertical Trailer for viewing over barriers

Folding-Frame Trailer for large roadways

Large Folding-Frame Trailer for high speeds

Regulatory sign sizes from 24 × 30 up to 48 × 60

Choose from preprogrammed messages or create your own

Compact Speed Trailer

Vertical-Mast Speed Trailer

Folding-Frame Speed Trailer

Optional Touchscreen Controller*

Wanco's full-color touchscreen controller provides access to all speed sign functions. Widely known as the industry's easiest to use, features include capacitive response, large virtual buttons and easy message setup.

Standard speed signs have an analog controller; the touchscreen is an optional upgrade. When a speed trailer is ordered from the factory with the Wanco Data Classifier System, the touchscreen controller is included.

Touchscreen Features

Capacitive touchscreen with instantaneous response

Single-press to access most common settings

Change settings and view system status from main screen

Set any speed and excessive speed independently

Display vehicle speeds or messages

Choose from preprogrammed messages or create your own custom messages

Internal clock facilitates built-in schedule programming

Set up connected devices, including the Wanco Traffic Data Classifier System, described below

Multi-level password protection restricts access to authorized personnel

Main screen shows message on sign, speed settings, radar and classifier status

Access system information, power levels, active alarms and system settings from main screen

Turn connected devices on and off, including radar, classifier and beacons

Options

Touchscreen controller

Red-and-blue or white flashers

Flashing beacons

Traffic Data Classifier System

Modem/GPS package

High-security battery box

Wheel-lock bar

Additional batteries and solar

Optional Traffic Data Classifier System

The Wanco Traffic Data Classifier System provides a safe, nonintrusive method for monitoring and analyzing traffic patterns. Instead of wires, loops or hoses, the data collector uses its own dedicated side-fire radar, which beats standard front-facing radar for capturing vehicle count, speed, direction and length (for classification) in both directions, with time and date. The system includes analytic graphing software for charting data with ease.

When integrated with any Wanco Radar-Speed Trailer, the data collector draws power from the speed trailer. The two systems can operate simultaneously or independently. The system also includes the touchscreen controller described above.

Classifier System Features

Tool for traffic engineers to analyze traffic patterns

Investigate and validate complaints from citizens, neighborhoods and contractors

Planners can back up needs and recommendations with real data

Radar-based design is less dangerous to install than loops and hoses

Most effective for two-lane roads

Counts both approaching and departing vehicles

Side-fire radar system captures vehicle count, speed, direction and length

Registers millions of vehicles in internal memory
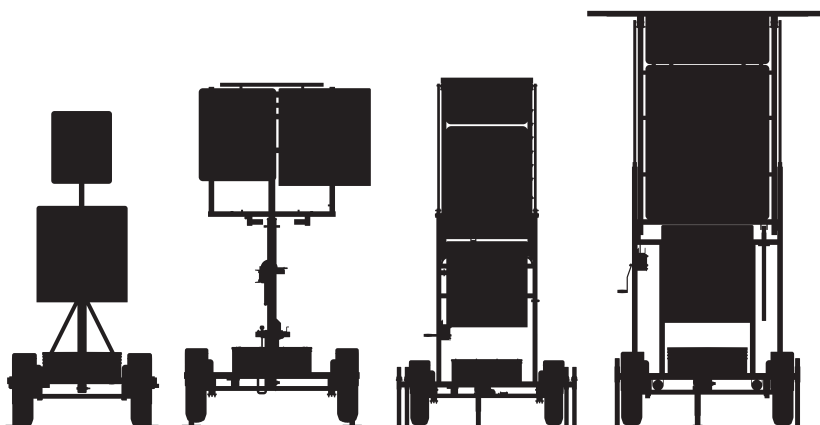
Remote data download with optional modem installed

Wanco Traffic Analyzer

Wanco Traffic Analyzer app included with system

App installs on user-supplied computer

Create and manage multiple projects at once

Name projects and add details and notes when needed

Analytic graphing charts vehicle count vs. speed, volume over time, and means & percentiles for easy analysis

Filter data as desired

Fully interactive graphs can be customized for your requirements

Export graphs in common file formats

Large Folding-Frame Speed Trailer with optional flashing beacons

Trailer Size Comparison

Compact Trailer   Vertical-Mast Trailer   Folding-Frame Trailer   Large Folding-Frame Trailer

Brief Specifications

		Compact Trailer		Vertical-Mast Trailer		Folding Trailer, 36 × 48		Large Folding Trailer, 48 × 60	
Deployed footprint, L × W	in (cm)	106 × 61	(268 × 154)	118 × 77	(299 × 195)	127 × 75	(323 × 191)	127 × 75	(323 × 191)
Operating height	in (cm)	123	(312)	134	(340)	136	(344)	162	(411)
Travel height	in (cm)	91	(231)	92	(234)	106	(269)	105	(267)
Display cabinet size, W × H*	in (cm)	36 × 38	(91 × 96)	36 × 38	(91 × 96)	36 × 38	(91 × 96)	36 × 38	(91 × 96)
Speed display font size	in (cm)	26	(66)	26	(66)	26	(66)	26	(66)
Speed limit sign size, W × H	in (cm)	24 × 30	(61 × 76)	30 × 36	(76 × 91)	36 × 48	(91 × 122)	48 × 60	(122 × 152)
Weight, approx.	lb (kg)	870	(395)	1250	(567)	1170	(531)	1300	(590)
Power		Batteries, solar		Batteries, solar		Batteries, solar		Batteries, solar	

*Height includes YOUR SPEED sign.

Variable Speed-Limit Trailers

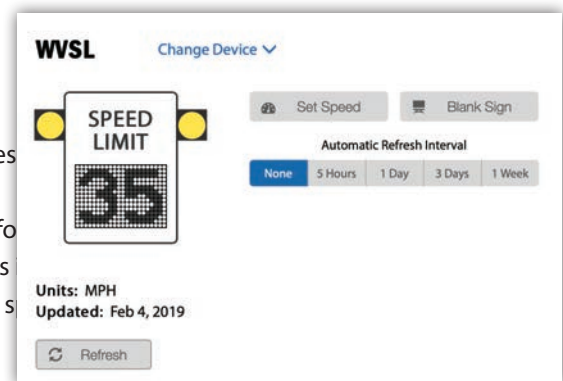# Change speed limits locally or remotely, in real time, based on actual road conditions

- Portable self-powered system
- Extra-large electronic display
- Selectable LED speed numbers
- Display speed in black-on-white or white-on-black
- Remotely accessible and changeable with Wanco 4G modem

Manage traffic more effectively with Wanco Variable Speed-Limit Trailers. Change displayed speed limits in response to current conditions without adding infrastructure.

Variable speed limit signs provide dynamically changeable speed limit notification to motorists on a brightly lit, highly visible LED display. Wanco Variable Speed Limit Trailers add flexibility to this strategy, being both portable and self-powered. They are easy to deploy and require no permanent installation or wiring. Power is provided by batteries that are charged by an automated solar charging system.

Wanco Variable Speed-Limit Trailers display a changeable speed limit on a sign that mimics the look of a regulatory speed limit sign. Two sign sizes display is capable of showing white numbers on a black background and black numbers on a white background, two digits fo digits for km/h. Automatic dimming helps to ensure long run times. Options 4G modem for remote communications, flashing beacons, Wanco Radar for s the Wanco Traffic Data Classifier System.

Speed-limit sign in Wanco Fleet Manager

When deployed on highways and other high-speed arterials as a component of an active traffic management (ATM) system, the transportation department can change the displayed speed remotely or at the sign. Update the displayed speed in real time to accommodate changes in conditions due to weather, incidents, work zone activity and other traffic events using the Wanco Fleet Manager service or an ATM system. Broadcast capability is built in.

Brief specifications

Speed limit sign	36 × 48 in. (91 × 122 cm) or 48 × 60 in. (122 × 152 cm)	Deployed footprint	75 × 75 in. (191 × 191 cm)
Display	30 × 20 in. (76 × 51 cm)	Deployed height	145 in. (366 cm)
Character height	18 in. (46 cm)	Travel height	101 in. (257 cm)
Sign height	84 in. (213 cm) to bottom of sign	Weight, approx.	1520 lb (690 kg)