

From design to delivery, no one beats National Signal's expertise in LED technology.

Our Sunray TM200 and TM300 Full Matrix signs are a prime example of taking CMS applications to the next level.

Lightweight, easily mounted and simple to operate, these units provide a variety of bright, multiple message and communication features to meet the most stringent requirements.

Traffic safety is the driving force in National Signal's ongoing research and development efforts.

Whatever your traffic requirements, you can depend on National Signal Inc. for the latest technology, innovation, reliability and continued commitment to cost-effective solutions.



- *Truck Mounted*
- *LED AllnGaP Technology*
- *Hundreds of pre-programmed messages, MUTCD symbols, and operator-created messages*
- *Up to 3 lines and 12 characters*
- *Color Touch Tablet*
- *Cost Effective*
- *Reliable and easy to operate*
- *High torque electric motor*
- *Meet or exceed all state and federal highway MUTCD traffic safety specifications*

## Sign Panel

- Full Matrix LED:

TM 200	20 pixels high by 40 pixels wide, up to 3 lines by 10 characters maximum depending on font
TM 300	28 pixels high by 48 pixels wide, up to 4 lines by 12 characters maximum depending on font

- 590 nm (amber) light output LED AlInGaP technology
- 4 LED/Pixel standard, 1.5" x 1.75" pixel spacing
- Store over 300 pre-programmed permanent messages and operator-created messages
- Moving arrows, chevrons and other graphics with auto-centering of messages
- Cables and connectors for connecting to vehicle battery power are included
- Unique "stay tight" snap-in characters
- Positive locking mechanism in raised and lowered positions with dual electric actuators
- Long-lasting powder coat finish

Raised height (from base to top of sign):

TM 200	46" (116.8 cm)
TM 300	58" (147.3 cm)

Lowered height (from base to top of sign):

TM 200	15" (38.1 cm)
TM 300	15" (38.1 cm)

Mounting width:

TM 200	85" (215.9cm)
TM 300	98" (248.9)

Gross Weight:

TM 200	250 lb. (113.4 kg)
TM 300	300 lb. (136kg)

## Control

Type	Handheld/removable
Dimming	Manual or automatic
Photo electric sensor	Mounted away from extraneous light
NTCIP communications	Supported
Mounting	On pedestal with separate lift switch

## Options

- 3/16" polycarbonate sign window (std. is 1/8")
- Custom paint - colors to meet specs
- Anti-graffiti coating on window

## Mounting Frame

TM 300	50"h x 88"w x 9"dp
TM 200	38"h x 75"w x 9"dp
Frame	1" x 2" x .120 wall steel tube
Pivots	Sealed bearing pillow blocks

## Fonts

TM 200	TM 300
7.5" H 10/line (3) lines	7.5" H 10/line (3) lines
11.5" H 6/line (2) lines	10" H 9/line (3) lines
24" H 3/line (1) line	11.5" H 9/line (3) line
10" H 8/line (2) lines	24" H 3/line (1) lines

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