

# NAVIGATE BY THE NORTHSTAR

## CMS80TL Three Line Message Board

NorthStar CMS80TL three line, changeable message sign is a state of the art system. Fully NTCIP and MUTCD compliant. The toughest frame in the industry, coupled with the most advanced electronics means that it is simple to operate, but will last for years of hard use. Provide information on:

- Traffic Delays,
- Special Events,
- Adverse Road Conditions,
- Retail Promotions or Sales,
- Construction Detours,
- Reduced Speed Zones



## CMS80TL - Three Line Message Board

NTCIP compliance means that the CMS80TL can be integrated into systems that use other manufacturer's NTCIP compliant traffic equipments. It is your assurance that you are using the latest communications protocol.

The NorthStar's super efficient LED panels run on a fraction of the power of competitors models reducing the need for excess solar panels. The panels are interchangeable and replaceable. The brightness of the LED's is adjusted automatically with the onboard photo sensor to optimize visibility of the sign in any condition. The NorthStar's Solar Array is mounted in the optimum charging position and can be tilted down for easy cleaning. The 10 - 6 Volt, Heavy Duty, Deep Cycle Batteries provide enough power for the unit to run for 30 days without sunlight.

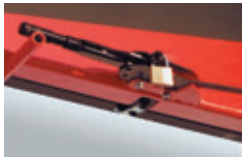
The slim, custom designed, steel display case features rounded corners, a virtually unbreakable polycarbonate covering and is constructed using self sealing rivets. Our unique dual seal protects electronic components from moisture. The display can be rotated over 360 and the sight tube provides for easy alignment of the sign. When the sign is properly aligned it can be pad locked in place using the locking mechanism on the automotive grade disc braking system.

The NorthStar's custom built, on-board computer controller features a backlit LCD screen and a watertight QWERTY keyboard. The easy-program custom software features password protection, and a quick program function loaded in each unit.

NorthStar message boards feature a sturdy welded steel frame. Balanced placement of the batteries and our advanced torsion axle suspension system provide years of smooth, trouble free towing. A durable automotive grade finish provides superior corrosion protection from salt spray or stone chips to keep your NorthStar message board looking good for years to come. A choice of a 2" Ball or Pintle couplers is available to meet your specific towing requirements and the leveling jacks on all 4 corners of the trailer allow for stable, level placement of the unit on any terrain.

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Solar panels



Adjustable locking brake

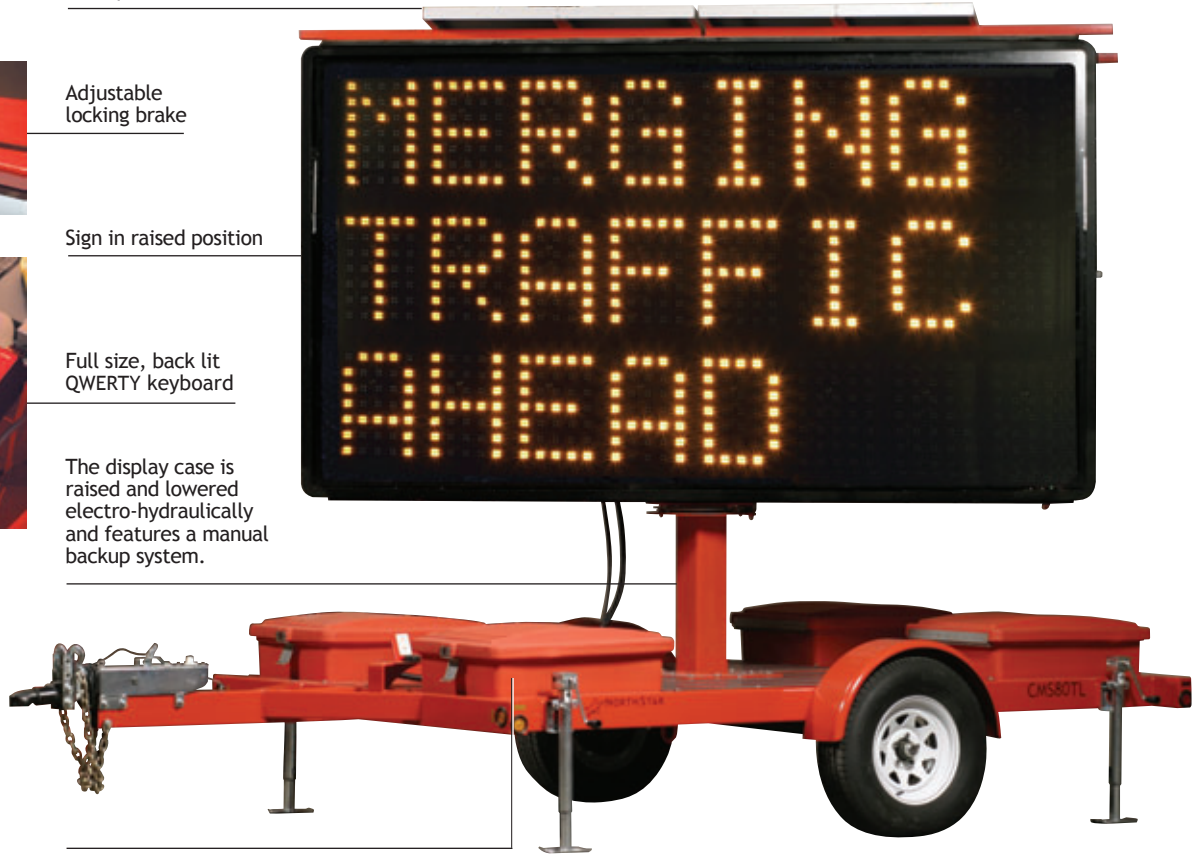
Sign in raised position



Full size, back lit QWERTY keyboard

The display case is raised and lowered electro-hydraulically and features a manual backup system.

Solar panels tilt down for easy cleaning



The rugged poly compartments provide easy access to the batteries and control functions and can be locked to eliminate tampering or theft.

## Specifications:

Length	188"	Sign Rotation	360°+
Width	81"	Operating Voltage	12 Volts
Height (Operating/Towing)	181" / 105"	Solar Array Power Output	225, 300, 375 or 450 Watts
Ground Clearance	14.5"	Batteries	10
Weight	3,000 lbs	Battery Capacity	1175 Amp Hrs
Display Size (w x h)	126" x 76"	Pre-Programmed Messages	200
Matrix Size	21 x 40 Pixels	User Defined Messages	200
Pixel Size	2.6" x 2.6"		

Specifications subject to change without notice.

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## Warranty:

Overall:	2 Years
Solar Panels	10 Years
Electrical:	2 Years
Display Modules:	5 Years

All models meet or exceed the specifications for Portable Changeable Message Signs as listed in Part 6F.52 of the Federal Highway Administration's Manual on Uniform Traffic Control Devices (MUTCD).

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