



## FEATURES

- ▶ Graphic Capability
- ▶ Compact Trailer Design
- ▶ Quick Message Selection
- ▶ Removable Tongue
- ▶ NTCIP Controller (Optional)
- ▶ Lockable Cabinets
- ▶ Password Protection
- ▶ Powder Coat Paint
- ▶ (4) Adjustable Corner Jacks
- ▶ (1) Tongue Jack
- ▶ Independent Module Operation
- ▶ Photocell for Auto dimming
- ▶ RF Immunity



# PORTABLE CHANGEABLE MESSAGE SIGN

## MODEL #MB14281WT

The MB14281WT Portable Changeable Message Sign is solar powered. It is capable of three lines of alphanumeric 18" high text and graphics/animations. This CMS comes standard with wireless messaging functionality, using K&K Systems' proprietary CrossTalk® Message Controller. Additionally, we offer an optional, self-contained controller featuring an LED display and on-board keyboard, which is NTCIP compliant and supports predefined messages in text and graphics. The display measures 142" x 81" and is mounted on a winch style trailer that has a powder coat finish for durability. The display is powder coated matte black to reduce glare and is protected by a Lexan face.



NTCIP Controller (Optional)



## OPTIONAL WIRELESS PROGRAMMING

With K&K Systems' web-based technology, easily change messages remotely from anywhere with internet access. Compatible with Android and IOS devices.

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## PORTABLE CHANGEABLE MESSAGE SIGN

### TRAILER MOUNT SERIES

#### TRAILER

**Width:** 82" fender to fender  
**Length with tongue:** 172"  
**Length without tongue:** 120"  
**Transport Height:** 110"  
**Operating Height:** 170"  
**Salt Spray:** 4,000 hours  
**Paint:** Powder Coated  
**Main frame:** 2"x5"x 1/8"  
**Front/Rear Cross members:** 2"x3"x 1/8"  
**Wheels:** 15"  
**Gross Weight:** 1655 lbs  
**Axle:** 3500 lbs double leaf spring  
**Fenders:** Injection Molded  
**Jacks:** (4) adjustable corner jacks & tongue jack with wheel  
**Tongue and Safety Chains:** 2" ball hitch; 1/4" safety chains with hooks

#### SIGN DISPLAY

**Pixel Matrix:** 27x48 Pixel Arrangement  
**LED Module:** Each is 6x9 matrix  
**LED's Per Pixel:** 5  
**LED Type:** Agilent amber 592NM  
**Viewing Angle:** 30 degrees  
**Visibility:** Up to 1 mile  
**Hours:** 100,000 hour LED  
**Lines:** Displays 3 lines of text and graphics in regular. In short font 4 lines.  
**Characters per line:** 8 characters in regular font. 6 character in bold font.  
**Character Height:** 18" standard  
**Operating Temp:** (-30°F to 170°F)  
*\*If one module fails, remainder of sign is unaffected*

#### DISPLAY ENCLOSURE

**Construction:** Extruded Aluminum 6063 alloy  
**Panel Size:** 81"x6"x142"  
**Paint:** Powder coated  
**UV Resistant:** 500 hours  
**Seal:** Weather resistant  
**Venting:** Vented top and bottom  
**Front face:** 1/8" Lexan UV matte finish  
**Raising and lowering of display:** Winch Style

#### POWER AND CHARGING

**Batteries:** (4) 12 volt batteries for combined 400 amps  
**Battery Charger:** 120 volt, 12 V, 60 amp  
**Recharge:** 24 hours  
**On-Board diagnostics to monitor:** Solar, battery, and load  
**Solar:** (1) 140 watt solar panel  
**Regulator and/or CrossTalk:** Built in low voltage and high voltage disconnects

#### KEYBOARD CONTROLLER

**Quick Message Selection:** Thumbwheel to quickly select between 16 user programmable messages.  
**Controller Display:** LCD  
**Data Entry:** Mini Keyboard  
**Memory:** Non volatile  
*\*Pre-wired to accommodate radar, cell modem, and PC*  
*\*"Auto Resume" after power failure*

#### WIRELESS CONTROLLER

**Wireless Device:** CrossTalk Controller  
**Bluetooth Programming:** Yes  
**Controller Display:** On-board tablet  
**Data Entry:** On-board tablet software  
*\*"Auto Resume" after power failure*  
**Control Cabinet:** Weatherproof aluminum construction

#### OPTIONS

- ▶ Locking lug nuts
- ▶ Radar
- ▶ Pintle ring or bulldog hitch
- ▶ Electric or hydraulic brakes
- ▶ Custom Paint
- ▶ Outtrigger Stability Supports
- ▶ Other Options available



The CrossTalk®, K&K's proprietary communication system, provides secure wireless functionality via Bluetooth or optional cloud-based software.



CMS units have the option to come equipped with an on-board keyboard for programming and NTCIP Compliance.



K&K Systems' Quick Message Selection Thumbwheel switches between the first 16 user defined messages. Roll the thumbwheel to desired message number to display a message.



Shown with On-Board Tablet with Bluetooth Application

