



Silent Messenger II Message Board Mid-Sized

USES AND ADVANTAGES

The "Silent Messenger" MB II Message Board is a mid-sized message board. This rugged portable changeable message board is designed to provide communications to improve traffic flow and safety in highway work zones.

The Silent Messenger consists of a 92" w x 54" h board with multiple LED light panels on a sturdy steel trailer, powered by a combination of solar panels and batteries. Choose from either a Trailer Mount or Lift and Rotate telescoping base.

The sign comes with integrated modem, GPS, and **FREE lifetime cellular service**. Use with SolarTech's Command Center software for remote communications - messages can be changed and managed remotely from an office pc or a smartphone. No cellular charges, ever!



EASY-TO-USE CONTROLLER

The touch-screen controller needs no manual - it's that easy to use! Includes:

- GPS, modem and free cellular service
- Password protection
- Intuitive icons for ease of use
- Scheduling capability
- Fully networkable
- NTCIP version 2 compatible
- Automatic software upgrades

REMOTE CONTROL AND GPS TRACKING INCLUDED!

Command Center software allows you to track your equipment using the built-in modem and GPS system.

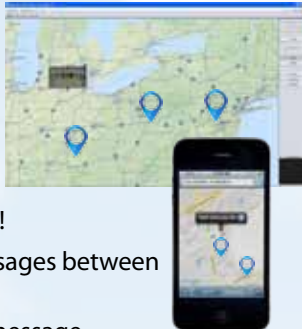
Access units from a map or list. Control units individually or broadcast to a group.

Manage your fleet from your laptop, pc or smartphone... without leaving your desk!

You can build a message library, share messages between boards, schedule messages and more.

Get automatic email notifications when a message changes, if the battery voltage is low, if a panel fails, or the unit moves.

Keep tabs on your whole fleet. No more misplaced equipment... fewer problems... less downtime!



Silent Messenger II Message Board

DISPLAY PANELS

Panel Size	Standard: 92" w x 54" h (234 cm x 137 cm)
Pixel Array/Size	27 x 48 pixel array with 1.77" (45 mm) pitch
Character Height	9" to 46" (23 cm to 117 cm)
Panel Construction	All aluminum, modular construction
Panel Face	3/16" polycarbonate, non-glare
Characters per Line	Up to twelve (12)
Number of Lines	Up to four (4)
Number of Fonts	Twelve (12)
Graphics Capability	Full matrix with full animation
Display Technology	LED (amber, 592 mm)
Display Brightness	>10,000 candela per square meter
Display Life Expectancy	10 years typical
Viewing Angle	23° horizontal (minimum)

TRAILER

	Standard Trailer	Lift & Rotate Trailer
Length Overall (operating)	112" (284 cm)	108" (274 cm)
Length Overall (towing)	112" (284 cm)	152" (386 cm)
Width Overall	92" (234 cm)	77" (196 cm)
Width Across Fenders	75" (191 cm)	77" (196 cm)
Height Traveling	92" (234 cm)	101" (257 cm)
Ground Clearance	13" (33 cm)	13" (33 cm)
Height Operating	142" (360 cm)	142" (360 cm)
Weight of MB II Panel	1,560 lbs (708 kg)	2,000 lbs (907 kg)
Coupler	2" (50 mm) ball or 2.5" (64 mm) pintle ring	2" (50 mm) ball or 3" (76 mm) pintle ring
Lifting Mechanism	1,000 lb. automatic brake, winch & cable	1,000 lb. electric linear actuator
Axle/Suspension	(for both) Torq flex, independent	

MEGA-TECH CONTROL CONSOLE

Console Circuitry	Ultra-low power solid state
Console Touchscreen	Waterproof, backlit, full-color GUI, intuitive icon-driven, multi-lingual
Programming Software	Proprietary with automatic remotely managed upgrades (field upgradable for units not connected to Command Center)
Message Capacity	Pre-programmed and user-defined (> 250 each)
Message Display Time	User-selectable (0.1 to 99 seconds)
Display Update Time	Instantaneous
Non-Volatile Memory	512 MB compact flash
Password Protection	User-selectable, multi-level
Operator Interface	Easy-to-use icons (no menu required)
Connectivity	Supports NTCIP version 2 via UDP/IP over Ethernet, UDP/IP over the built-in cellular modem, and PMPP over RS-232.
Remote Control	Embedded cellular transceiver with free cellular service and fleet management software included
GPS	Integrated GPS receiver

ENERGY SOURCE

Operating Voltage	12 Volts DC (nominal)
Battery Type	6 Volt heavy duty, deep cycle (GC-2)
Number of Batteries	Four (4) standard lead acid (flooded)
Battery Bank Capacity	520 amp hours
Battery Status Indicator	Displays battery voltage, charging activity and low battery condition
Battery Security	Anti-theft steel battery frame bolted to trailer
Solar Array Construction	Top-mounted solar panels in aluminum frame
Solar Array Power Output	Standard 160 watt (nominal)
Solar Charge Controller	Automatic, temperature compensated
Auxiliary Battery Charger	45 amp, 120 volt AC



OPTIONS AND UPGRADES

DISPLAY PANEL UPGRADES - Lift and Rotate Only

- 30 x 48 pixels at 1.77" (45 mm) pixel pitch
- 30 x 56 pixels at 1.77" (45 mm) pixel pitch

SOLAR ARRAY OPTIONS

- 240 watt
- 320 watt

BATTERY UPGRADES

Type	Number	Capacity
Lead-Acid (flooded)	Six (6)	780 amp hour
	Eight (8)	1040 amp hour
Gel Cell or AGM (maintenance free)	Four (4)	520 amp hour
	Six (6)	780 amp hour
	Eight (8)	1040 amp hour

BATTERY CHARGER UPGRADES

- 90 amp - 120 volt AC
- 55 amp - 230 volt AC
- 40 amp - 230 volt AC

BRAKES

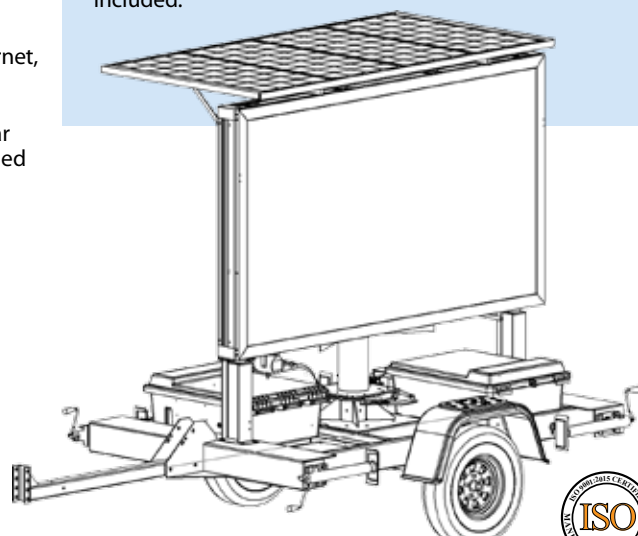
- Hydraulic Surge Brakes (5,000 lb. Capacity)
- Electric Brakes

SECURITY OPTION

- Vandal-Proof Battery Box reinforced steel cage

RADAR OPTIONS

- Directional doppler K-Band. User-configurable KPH or MPH. Data Collection and Statistical Analysis Package included.



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