

# Silent Messenger

## Full-Sized Message Board

The “Silent Messenger” full-sized Message Board is the cornerstone of the SolarTech product line. This rugged portable changeable message sign is designed to provide information to improve traffic flow and safety in work zones, for both drivers and workers.

The Silent Messenger consists of a 126” w x 76” h sign panel with a 27 x 48 pixel full matrix LED display on a sturdy steel trailer, powered by a combination of solar panels and batteries. The sign telescopes on a lift and rotate mast, and can be rotated for optimal visibility.

## OPTIONAL REMOTE CONTROL & GPS TRACKING\*

When choosing this option, the Message Board will come with a GPS receiver, a cellular transceiver, and **FREE lifetime cellular service\***.

SolarTech’s Command Center software allows you to track and manage your equipment from your laptop, PC, or smartphone. Keep tabs on your whole fleet... without leaving your desk!

No more misplaced equipment... fewer problems... less downtime!

With Command Center you can:

CHANGE messages remotely.

ACCESS units from a map or list.

CONTROL units individually or broadcast to a group.

BUILD a message library, share messages between boards, schedule messages and more.

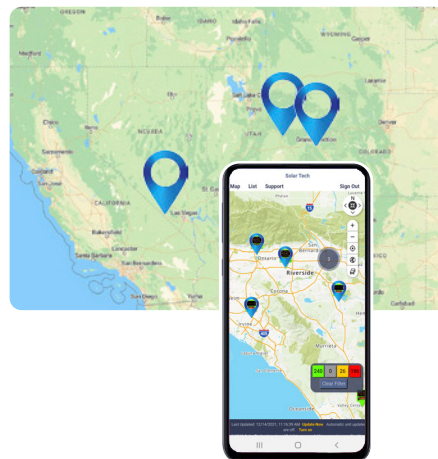
RECEIVE automatic email notifications when a message changes, if the battery voltage is low, if a pixel fails, or if the unit moves.

## PRODUCT GUIDE



### EASY-TO-USE CONTROLLER

- ▶ Password Protection
- ▶ Intuitive Icons for Ease of Use
- ▶ Scheduling Capability
- ▶ Fully Networkable
- ▶ NTCIP version 3 Compatible



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

Learn more at [www.solartechtechnology.com](http://www.solartechtechnology.com)

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## Full-Sized Message Board

### Display Panel

Panel Size .....126" x 76" (320 cm x 193 cm)  
 Panel Construction.....All aluminum, modular construction  
 Panel Face .....3/16" polycarbonate, non-glare  
 Matrix Size .....27 x 48 pixels  
 Pixel Pitch .....2.6" x 2.6" (66 mm x 66 mm)  
 Number of Fonts .....Twelve (12)  
 Character Height.....13" to 68" (33 cm to 173 cm)  
 Graphics Capability.....Full matrix with full animation  
 Display Technology .....LED (amber, 592 nm)  
 Display Brightness .....>10,000 candela per square meter  
 Viewing Angle.....>60°  
 Display Life Expectancy.....10 years typical  
 Lifting Mechanism .....2,000 lb. capacity electro-hydraulic

### Trailer

Length Overall .....186" (472 cm)  
 Width Overall.....92" (234 cm)  
 Height Traveling.....108" (274 cm)  
 Height Operating .....164" (417 cm)  
 Ground Clearance .....13" (33 cm) minimum  
 Weight (minimum) .....2,900 lbs. (1,315 kg)  
 Weight (maximum) .....3,500 lbs. (1,588 kg)  
 Coupler (Class III) .....2" (50 mm) ball or 3" (76 mm) pintle ring  
 Axle/Suspension .....Torq flex independent

### Mega-Tech Control Console

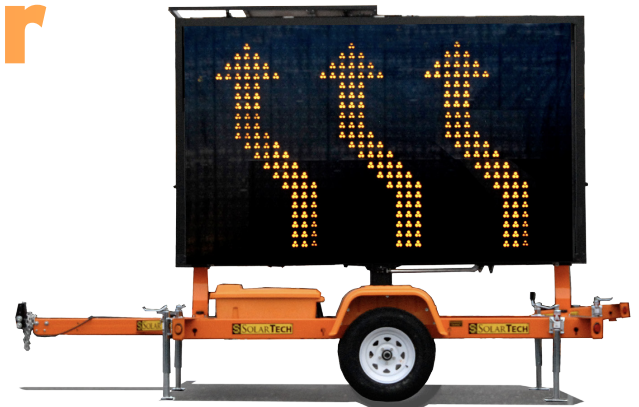
Console Circuitry .....Ultra-low power solid state  
 Console Touchscreen.....Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual  
 Programming Software .....Proprietary, field upgradable (for units not connected to Command Center)  
 Message Capacity.....Pre-programmed and user-defined (> 250 each)  
 Message Display Time.....User-selectable (0.1 to 99 seconds)  
 Display Update Time.....Instantaneous  
 Non-Volatile Memory .....16 GB Micro SD card  
 Password Protection .....User-selectable, multi-level  
 Operator Interface.....Easy-to-use icons (no manual required)  
 Connectivity.....Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232; Units with Remote Communications Option: UDP/IP over the built-in cellular modem.

### 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  
 Solar Array Construction .....Top-mounted solar panels in aluminum frame  
 Solar Array Power Output.....Standard 160 watt (nominal)  
 Solar Charge Controller .....Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)



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## OPTIONS AND UPGRADES

### Remote Communications

Includes GPS receiver, cellular transceiver, and FREE cellular service\*. Remotely access and track your Message Board.

*\*With this option, cellular service is provided free of charge, and is limited to carrier supported generational wireless technology.*

### Display Panel

» High-Definition Display - 30 x 56 pixels 2.3" (58 mm) pixel pitch

### Radar Options

Directional doppler K-Band, user-configured KPH or MPH. Data collection and statistical analysis package included.

### Solar Array Options

#### FIXED:

220 watt      270 watt      330 watt      440 watt      490 watt

#### TILT & ROTATE:

160 watt      220 watt      330 watt      440 watt

### Battery Upgrades

Type	Number	Capacity
Lead-Acid (flooded)	Six (6)	780 amp hour
	Eight (8)	1040 amp hour
	Ten (10)	1300 amp hour
	Twelve (12)	1560 amp hour
Gel Cell or AGM (maintenance-free)	Four (4)	520 amp hour
	Six (6)	780 amp hour
	Eight (8)	1040 amp hour
	Ten (10)	1300 amp hour
	Twelve (12)	1560 amp hour

### Brakes

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

### Battery Security Options

» Anti-theft steel battery frame bolted to trailer  
 » Vandal-proof battery box with reinforced steel cage

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