

The

SILENT MESSENGER

SOLAR POWERED FULL MATRIX PORTABLE DYNAMIC MESSAGE SIGNS

MB Series

EXCLUSIVE FEATURES

Truly Solar Powered - Continuous, uninterrupted operation

Brightest, Most Visible Display - Legible messages under all conditions

Mega-Tech Full Color Touch Screen Control Console - Simple easy to use graphical user interface (GUI)

Sign Panel Failsafe System - Automatically detects and corrects errors and faults

CE Marked - Insures complete electromagnetic compliance for superb reliability

Cellular Remote Ready - Interface and software required for remote control is included

Custom Sign Case & Door Frame Extrusions - Sturdy, secure and weathertight

Modular Construction - Easy maintenance and repair

Torsion-type Axle - Smooth, stable ride

Polyamide Epoxy Primer - Excellent rust and corrosion protection

Acrylic Urethane Finish - Excellent appearance and durability

ISO 9001:2000 Certified Design and Manufacturing - The ultimate in quality assurance

Best Warranty -
One year overall
Two years on electrical and electronic components
Three years on standard display modules
Ten years on solar panels

AVAILABLE OPTIONS

Radar Speed Monitor - Measure and display speed of oncoming vehicles

Wireless Remote Control - Includes antenna, cables, and cellular modem

Auxiliary Battery Pack - Increases energy storage capacity and autonomy

Solar Array Upgrades - Increases energy generation capacity and run-time

Auxiliary Battery Charger Upgrade - 45 Amp or 75 Amp



SOLAR TECHNOLOGY, INC.

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Harness the Power of the Sun

The SILENT MESSENGER

FULL MATRIX PORTABLE DYNAMIC MESSAGE SIGN

SPECIFICATIONS

MESSAGE PANEL

Panel Size	126 in. wide x 76 in. high (320 cm wide x 193 cm high)
Panel Construction	All aluminum, modular construction
Matrix Size	27 x 48 Pixels or 30 x 56 Pixels
Pixel Size	2.6 x 2.6 inches (6.6 x 6.6 cm) (27x48) 2.3 x 2.3 inches (6.0 x 6.0 cm) (30x56)
Characters per Line	Up to Twelve (12) (27x48) Up to Fourteen (14) (30x56)
Number of Lines	Up to Four (4)
Number of Fonts	Seven (7)
Character Height	13 to 52 inches (46 cm to 132 cm)
Graphics Capability	Full Matrix
Display Technology	LED (Amber, 592 nm)
Display Life Expectancy	10 years typical
Lifting Mechanism	2,000 lb. capacity electro-hydraulic
Sign Panel Rotation	Greater than 360 degrees

PHYSICAL

Length Overall	180 inches (457 cm)	
Width Overall	92 inches (234 cm)	
Width Across Fenders	92 inches (234 cm)	
Height Traveling	103 inches (262 cm)	
Height Operating	162 inches (412 cm)	
Ground Clearance	13 inches (33 cm) min.	
Weight	2,400 lbs (1,089 kg) approx. w / Aux. Battery Pack	2,700 lbs (1,230 kg) approx.
Coupler (Class III)	2-inch (5.1 cm) ball or 3-inch (7.6 cm) pintle ring	
Axle/Suspension	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, field upgradable
Message Capacity	Pre-programmed and user programmed - greater than 250 each
Time/Date Control	Real time clock/calendar (365-day)
Message Display Time	User-selectable (0.1 to 99 seconds)
Display Update Time	Instantaneous
Non-volatile Memory	Separate backup battery
Password Protection	User-selectable, multi-level
Operator Interface	Easy-to-use icons (no instruction manual required)
Connectivity	Networkable (wired or wireless) and NTCIP compatible

ENERGY SOURCE

Operating Voltage	12 Volts DC	
Battery Type	6-Volt Heavy duty, deep cycle	
Number of Batteries	Four (4) w / Aux. Battery Pack Upgrade ..	Eight (8) or Twelve (12)
Battery Bank Capacity	600 Amp Hours w / Aux. Battery Pack Upgrade ..	1,200 Amp Hours or 1,800 Amp Hours
Battery Status Indicator	Displays full charge, normal and low battery condition	
Solar Array Construction	Top-mounted solar panels in aluminum frame	
Solar Array Power Output	MB-1548/1556 - 150 Watts (peak) MB-2248/2256 - 225 Watts (peak) MB-3048/3056 - 300 Watts (peak) MB-3748/3756 - 375 Watts (peak) MB-4048/4056 - 450 Watts (peak)	
Solar Charge Controller	Automatic, temperature compensated	
Auxiliary Automatic Battery Charger	115 VAC line powered, 30 Amp	

All models meet or exceed the standards for Portable Changeable Message Signs as listed in the U.S. Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

Specifications subject to periodic updates as required without notice.

AVAILABLE OPTIONS

BATTERY BANK UPGRADES

8 or 12 batteries (1,200 AH or 1,800 AH) and/or Gel-Cell

WIRELESS REMOTE CONTROL

Cellular Modem & Antenna

RADAR SPEED MONITOR

Monitor and display speed of oncoming traffic

AUXILIARY AUTOMATIC BATTERY CHARGERS

115 VAC line powered, 45 Amp or 75 Amp

AUTOMATIC SNOW/ICE CLEARING SOLAR ARRAY

Programmable fully automatic linear actuator for solar array

OTHER SolarTech PRODUCTS

SILENT SENTINEL

Trailer and Truck Mount Arrow Boards

SILENT MESSENGER

Full-Size Portable Dynamic Message Boards

SILENT MESSENGER II

Mid-Size Trailer and Vehicle Mount Message Boards

SILENT MESSENGER III

Small-Size Trailer and Vehicle Mount Message Boards

SILENT ADVISOR

Low and High Speed Application Radar Speed Trailers



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