

# *The* **SILENT MESSENGER IV**

## **SOLAR POWERED FULL MATRIX PORTABLE DYNAMIC MESSAGE SIGNS**

### **MB4 Series EXCLUSIVE FEATURES**

**Smallest NTCIP Compliant Solar Powered Portable Changeable Message Sign Available!**

**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)**

**Integrated GPS Receiver - Provides unit location when equipped with Wireless Remote Control Option**

**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 9001:2008 Certified Design and Manufacturing - The ultimate in quality assurance**

**Best Warranty - Five-Year Bumper to Bumper Warranty!**

#### **AVAILABLE OPTIONS**

**Radar Speed Monitor - Measure and display speed of oncoming vehicles & record traffic statistics**

**Wireless Remote Control - Includes antenna, cables, cellular modem and GPS receiver & antenna**

**Auxiliary Battery Pack - Increases energy storage capacity and autonomy**

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



Kilshanroe, Enfield,  
County. Meath, Ireland  
tel: 046-9541300 fax: 046-9541346  
email: [info@highwaymarkings.ie](mailto:info@highwaymarkings.ie)  
[www.highwaymarkings.ie](http://www.highwaymarkings.ie)

# The **SILENT MESSENGER IV**

## FULL MATRIX PORTABLE DYNAMIC MESSAGE SIGN

### MESSAGE PANEL

Panel Size .....	60" wide x 30" high (152 cm x 76 cm) 78" wide x 30" high (198 cm x 76 cm) 78" wide x 33" high (198 cm x 84 cm)
Panel Construction .....	All aluminum, modular construction
Pixel Size .....	1.50" x 1.50" (38 mm x 38 mm) 0.75" x 0.75" (19 mm x 19 mm)
Matrix Size .....	16 x 36 Pixels - 38mm / 30" x 60" panel 16 x 48 Pixels - 38mm / 30" x 78" panel 18 x 48 Pixels - 38mm / 33" x 78" panel 32 x 72 Pixels - 19mm / 30" x 60" panel 32 x 96 Pixels - 19mm / 30" x 78" panel
Characters per Line .....	9 max. for 38mm / 60" wide panel 12 max. for 38mm / 78" wide panel 18 max. for 19mm / 60" wide panel 24 max. for 19mm / 78" wide panel
Number of Lines .....	Up to: 2 for 38mm or 4 for 19mm
Character Height .....	7.5 to 24 inches (19 to 76 cm) - 38mm 5.5 to 24 inches (9.5 to 76 cm) - 19mm
Graphics Capability .....	Full Matrix with Animation
Display Technology .....	LED (Amber, 592 nm)
Display Life Expectancy .....	10 years typical
Lifting Mechanism .....	1,000 lb. capacity winch & cable
Sign Panel Height (Operating) ...	7 ft (214 cm) to bottom of sign panel

### PHYSICAL

Length Overall .....	117 inches (298 cm) - Towing 75 inches (191 cm) - Deployed/Storage
Width Overall .....	60 or 78 inches (152 / 198 cm)
Width Across Fenders .....	56 inches (142 cm)
Height Traveling .....	90 inches (229 cm)
Height Operating .....	129 inches (328 cm)
Ground Clearance .....	13 inches (33 cm) min.
Weight .....	1,100 lbs (500 kg) - approx. (max)
Coupler (Class III) .....	2-inch (5.1 cm) ball or 2 1/2-inch (6.4 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 w / integrated GPS

### ENERGY SOURCE

Operating Voltage .....	12 Volts DC	
Battery Type .....	6-Volt Heavy duty, deep cycle	
Number of Batteries .....	Two (2) w / Aux. Battery Pack .....	Four (4)
Battery Bank Capacity .....	300 Amp Hours w / Aux. Battery Pack .....	600 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 .....	Standard (85 W) - 85 Watts (peak) 170 W Upgrade - 170 Watts (peak)	
Solar Charge Controller .....	Automatic, temperature compensated	

### RADAR DETECTOR (optional)

Operating Frequency .....	24.150 GHz (K-Band)
Antenna Beamwidth .....	12 degrees circular
Capture Angle .....	16.5 degrees
Target Speed Range .....	5 to 199 MPH (8 to 199 KPH)
Speed Accuracy .....	1 MPH typical
Detection Distance .....	1,000 to 1,500 feet

Specifications subject to periodic updates as required without notice.

### AVAILABLE OPTIONS

#### SOLAR ARRAY UPGRADES

Upgrade to 170 Watts

#### BATTERY BANK UPGRADES

Upgrade to 4 batteries (600 AH) and/or Gel-Cell Batteries

#### WIRELESS REMOTE CONTROL

Cellular Modem & Antenna

#### RADAR SPEED MONITOR

Monitor and display speed of oncoming traffic

### 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



Kilshanroe, Enfield,  
County. Meath, Ireland  
tel: 046-9541300 fax: 046-9541346  
email: [info@highwaymarkings.ie](mailto:info@highwaymarkings.ie)  
[www.highwaymarkings.ie](http://www.highwaymarkings.ie)