SOLARTECH®

Harness the Power of the Sun

SILENT MESSENGER IV
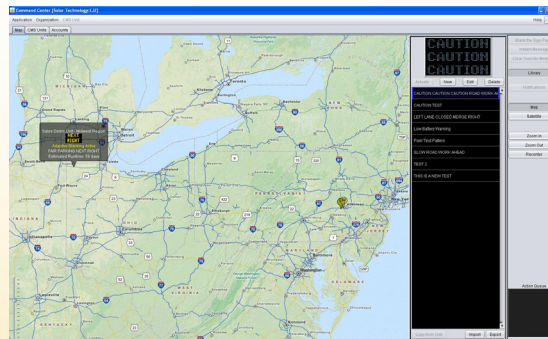## DYNAMIC MESSAGE SIGNS

60"
152 cm

129"
328 cm

QUALITY ASSURED
5-YEAR
BUMPER-TO-BUMPER WARRANTY

Powerful Control Technology included with each unit:

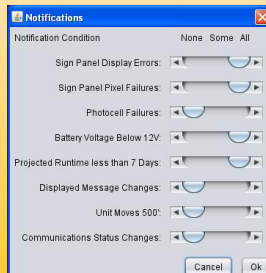### MEGA-TECH
TOUCHSCREEN CONTROLLER

- Intuitive, 10.4" LCD touch-screen GUI.
- So easy to operate that no instructions are needed!
- Multi-lingual capability allowing use throughout the world.
- Message scheduler for date/time and event-based messages.
- NTCIP compatibility for fast, simple integration into standard ITS installations.
- Integrated GPS receiver.
- USB "thumb drive" interface for fast, easy software updates (via the SolarTech website), as well as data collection (with optional Radar).

Remote Control and Diagnostics (with Modem Option)

COMMAND CENTER
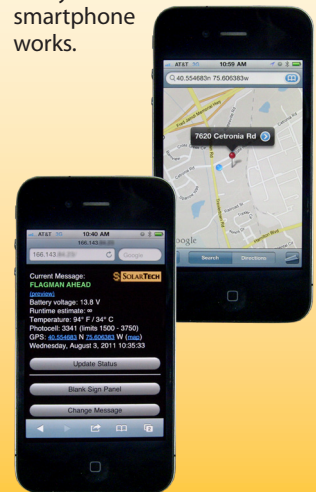**Manage, Monitor and Segment your Fleet of Traffic Safety Equipment**

- GPS mapping of all units
- Group control and management of fleet
- Limit Liability - permanent log records what messages are displayed, and when
- Automatic notifications and alerts

- Be notified of message change, location change, low battery, etc.
- Improve worker and driver safety
- Make fewer trips to the site by using remote diagnostics
- Have less "down time"

SMARTPHONE CONTROL

- Full control of your message board from your smartphone.
- No software or apps required.
- Totally secure - IP Address, user name & password required.
- Messaging - system status, geo-location and diagnostics accessible from anywhere that your smartphone works.

MESSAGE PANEL

Panel Size .... 60" wide x 30" high (152 cm x 76 cm)
    78" wide x 30" high (198 cm x 76 cm)
    60" wide x 33" high (198 cm x 84 cm)
Panel Construction .... All aluminum, modular construction
Pixel Size .... 1.5" x 1.5" (38 mm x 38 mm)
    0.75" x 0.75" (19 mm x 19 mm)
Matrix Size .... 16 x 36 pixels - 38 mm/60" x 30" panel
    16 x 48 pixels - 38 mm/78" x 30" panel
    18 x 48 pixels - 38 mm/78" x 33" panel
    32 x 72 pixels - 19 mm/60" x 30" panel
    32 x 96 pixels - 19 mm/78" x 30" panel
Characters per Line .... 9 max. for 38 mm/60" wide panel
    12 max. for 38 mm/78" wide panel
    18 max. for 19 mm/60" wide panel
    24 max. for 19 mm/78" wide panel
Number of Lines .... Up to: 2 for 38 mm or 4 for 19 mm
Number of Fonts .... Twelve (12)
Character Height .... 7.5" to 24" (19 cm to 76 cm) - 38 mm
    3.75" to 24" (10 cm to 76 cm) - 19 mm
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
Viewing Angle .... 23° horizontal (minimum)
Sign Panel Height (Operating) ... 7 feet (214 cm) to bottom of sign panel

TRAILER

Length Overall .... 117" (298 cm) - towing
    75" (191 cm) - deployed/storage
Width Overall .... 60" (152 cm) or 78" (198 cm)
Width Across Fenders .... 56" (142 cm)
Height Traveling .... 90" (229 cm)
Height Operating .... 129" (328 cm)
Ground Clearance .... 13" (33 cm)
Weight .... 1,100 lbs. (500 kg) approx. (maximum)
Coupler (Class III) .... 2" (50 mm) ball or
    2-1/2" (64 mm) pintle ring
Axle/Suspension .... Torq-Flex - independent

ENERGY SOURCE

Operating Voltage .... 12 volts DC (nominal)
Battery Type .... 6 volt heavy duty, deep cycle (GC-2)
Number of Batteries .... Two (2)
   w/Auxiliary Battery Pack .... Four (4)
Battery Bank Capacity .... 260 amp hours
   w/Auxiliary Battery Pack .... 520 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 - 80 watt (nominal)
   with upgrade .... 160 watt (nominal)
Solar Charge Controller .... Automatic, temperature compensated

Auxiliary Automatic
Battery Charger .... 45 Amp, 120 volt AC line-powered

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 .... 512MB Compact Flash
Password Protection .... User-selectable, multi-level
Operator Interface .... Easy-to-use icons (no manual required)
Connectivity .... Networkable (wired or wireless) and
    NTCIP compatible (Ethernet & RS-232)

OPTIONAL FEATURES AND UPGRADES

Battery Upgrades

- Four (4) lead acid (flooded) - 520 amp/hour capacity
- Two (2) gel cell or AGM: main. free, 260 amp/hour capacity
- Four (4) gel cell or AGM: main. free, 520 amp/hour capacity

Solar Array Upgrade

- 160 watt (nominal)

Remote Control Options

- Short range wireless - 802.11 WiFi
- Cellular Wireless - GPRS (CDMA/GSM) with GPS
- Solar Comm - secure, low cost GSM

Security Options

- Alarm, including GPS Locator/Recovery System
- Battery box metal lockdown frame

Radar Options

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

OTHER SOLAR TECH PRODUCTS

SILENT SENTINEL
Trailer and Vehicle Mount Arrow Boards

SILENT MESSENGER
Full-Size Trailer-Mount 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

INCIDENT RESPONSE TRAILER
Work Zone Trailer with Cones and Barrels

SOLAR-POWERED PORTABLE TOWER TRAILER
Platform for Cameras, Sensors and/or Lighting

SOLARTRAK
Monitoring and GPS Tracking of Construction Equipment

All models meet or exceed the standards for Portable Changeable Message Signs as listed in the U.S. Federal Highway Administration (FHWA) Manual or Uniform Traffic Control Devices (MUTCD). Specifications subject to periodic updates as required without notice.