



*As Reliable as the Sun*

# Silent Messenger MB-3072-MTQ

## FEATURES OF THE MB-3072-MTQ MESSAGE BOARD

### DISPLAY

The MB-3072-MTQ unit offers continuous, uninterrupted power between April 1 and November 30 in Quebec (320 watt solar array with tilt & rotate feature) with minimum fourteen (14) day autonomy on battery pack alone (per MTQ specifications).

Additionally, our message board display provides superlative visibility and legibility of messages under all ambient lighting and weather conditions (>10 degree angularity, >500m visibility, legible from <50m to >200m).

### UNIT CONSTRUCTION

Custom Sign Case and Door Frame Extrusions – Sturdy, secure, and weathertight (complies with CAN/CSA-S6-00).

Modular construction – Easy maintenance and repair with no cutting or welding for most repairs.

Torsion-type Axle – Offers a smooth, stable ride with a minimum of 13" ground clearance.

Polyamide epoxy primer is used on this product, which provides excellent rust and corrosion protection, and complies with CAN/CSA-S6-00).

Acrylic urethane finish ensures an excellent appearance and durability, and complies with CAN/CSA-S6-00.

### EASY-TO-USE CONTROLLER

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



- Graphical interface (GUI), 10.4" touch screen
- Four (4) levels of password protection
- Full NTCIP compatibility (per MTQ specifications)
- Scheduling capability
- Multilingual screen

### CELLULAR REMOTE READY

Manage your fleet from your laptop, pc or smartphone. The interface and software required for remote control comes installed (includes software, antenna, Ethernet cable and power connection for customer and/or MTQ supplied modem).

Receive notifications on systems status, geolocation and accessible diagnostics from anywhere your smartphone works.



# Silent Messenger MB-3072-MTQ

## DISPLAY

Panel Size .....	135" wide x 59" high (343 cm wide x 151 cm high)
Panel Construction .....	All aluminum, modular construction - conforms to CAN/CSA-S6-00
Matrix Size .....	30 x 72 pixels
Pixel Size .....	1.8" x 1.8" (45 mm x 45 mm)
Number of Lines .....	Up to Three (3)
Number of Characters per line.....	Up to Twelve (12)
Number of Fonts .....	One (1) - Custom MTQ Font Set
Character Height .....	12.5" (315 mm) nominal, visible from 500>m / legible 50 m to 200 m
Graphics Capability .....	Full matrix - static and animated
Display Technology .....	LED (amber, 590 nm)/>10,000cd/m <sup>2</sup>
Display Contrast Ratio.....	>6:1 (400 to 40,000lx)
LED Consistency.....	<3:1 (12% pixels)/<5:1 (4% pixels)
Display Life Expectancy .....	10 years minimum (>100,000 hours)
Lifting Mechanism .....	2,000 lb. capacity electro-hydraulic
Sign Panel Rotation.....	Greater than 360°

## TRAILER

Length .....	180" (457 cm) long
Width Overall .....	92" (234 cm) wide
Width Across Fenders .....	92" (234 cm)
Height Traveling .....	111" (282 cm)
Height Operating .....	170" (431 cm)
Ground Clearance .....	13" (33 cm) min.
Weight .....	2,400 lbs. (1,089 kg) maximum
Coupler (Class III) .....	2" (50 mm) ball or 3" (76 mm) pintle ring
Axle/Suspension .....	Torq flex, independent
Wind Loading/Stability.....	120kph (sustained)/160kph (gusts)
Temperature Range (operating) ..	-40° to +50° Celsius

## 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 manual required)
Connectivity .....	Networkable (wired or wireless - static or dynamic IP addressable) and fully NTCIP compatible (Ethernet and RS-232)

## ENERGY SOURCE

Operating Voltage .....	12 volts DC (nominal)
Battery Type .....	6 Volt heavy duty, deep cycle(BCI Group GC-2) -Crown CR-235
Number of Batteries.....	Eight (8) standard - min 14 day autonomy; w/ AUX battery Pack upgrade - twelve (12)
Battery Bank Capacity .....	1,200 amp hours standard (14 day autonomy); w/ AUX battery Pack upgrade - 1,800 amp hours
Battery Status Indicator .....	Displays full charge, normal and low battery condition
Solar Array Construction .....	Top mounted solar panels in sub-frame with tilt & rotate, and tamper resistant hardware
Solar Array Power Output .....	320 watts (peak)
Solar Charge Controller .....	Automatic, temperature compensated
Auxiliary Battery Charger .....	115 VAC, line powered, 45 amp - Standard; w/ Battery Charger upgrade - 90 amp

## OPTIONS AND UPGRADES

### BRAKES

- Hydraulic Inertial Brakes (capacity 5,000 lbs)
- Electric Brakes

### BATTERIES

- Twelve (12) lead-acid batteries (liquid electrolyte) (1560 Ah)
- Eight (8) maintenance-free batteries (Gel-Cell or AGM) (1040 Ah)
- Twelve (12) maintenance-free batteries (Gel-Cell or AGM) (1560 Ah)

### SOLAR GENERATORS

- 400 W (nominal) - 425 W (peak)
- 480 W (nominal) - 510 W (peak)

### BATTERY CHARGERS

- 75 A (115 V AC. 50/60 Hz - input)
- 45 A (230 V AC 50 Hz - input)

### REMOTE CONTROL OPTIONS

- Low wireless range - 802.11 WiFi
- Wireless cellular - GPRS (CDMA / GSM) with GPS

### RADAR

- Directional D band doppler. Configurable by the user in km/h or mph. Input software data and statistical analysis included.



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