Safety Information

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 1-800-633-0405 or 770-844-4200.

This publication is based on information available at the time it was printed. At Automationdirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without obligation. This publication may also discuss features that may not be available in certain revisions of the product.

What's in the Box

Included in the shipping carton are the following:

- The ViewMarq LED Message Display Unit
- Mounting Brackets
- Two Wall mount bracket assemblies with hardware (disassembled)
- Two Chain mount brackets with hardware (disassembled)
- Back Covers
  - Power Back Cover
    - 1/2” cable gland for power cable (with 10mm grommet installed)
  - Communication Back Cover
    - Two 1/2” cable glands (6mm and 10 mm grommets installed)
    - 3/4” cable gland (with 6mm split grommet installed)
- Two cable gland plugs (1 - 6mm, 1 - 10 mm)
- Accessories
  - 7 ft Ethernet Patch Cable
  - This Installation Guide

Power Wiring

The ViewMarq LED message display can accept either DC power (24 VDC) or AC power (120 or 240 VAC). There is a power terminal for each.

AC Power Input

Model Max Input Power
MD4-0112T 40 W
MD4-0124T 38 W
MD4-0212T 74 W
MD4-0224T 123 W

Power Supply Tightening Torque
Power Supply Wire Connection 4.5 in·lbs (0.5 N·m)
Wire Size 12 - 14 AWG

DC Power Input

Model Max DC Current
MD4-0112T 1.0 A
MD4-0124T 1.5 A
MD4-0212T 2.0 A
MD4-0224T 3.5 A
MD4-0412T 4.0 A

Power Supply Tightening Torque
Power Supply Wire Connection 4.5 in·lbs (0.5 N·m)
Wire Size 12 - 14 AWG

Agency Approvals

<table>
<thead>
<tr>
<th>UL/CUL/CE Certification Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>ViewMarq LED Message Display</td>
</tr>
</tbody>
</table>

Agency Approvals

- UL/CUL/CE
  - UL508

PC to LED Display Wiring

The ViewMarq LED message display may be connected to your PC via Ethernet or Serial communications.

Ethernet

Model Ethernet Patch Cable Power Input Power Input
MD4-0112T 110–240 VAC
MD4-0124T 110–240 VAC
MD4-0212T 110–240 VAC
MD4-0224T 110–240 VAC
MD4-0412T 110–240 VAC
MD4-0424T 110–240 VAC

Power Supply Required Wire Specification
Power Supply Wire Connection 1.7 in·lbs (0.2 N·m)
Wire Size 14 - 28 AWG

Configuration Software

ViewMarq Software is used to:

- Create and Preview messages
- Send messages to the ViewMarq LED Message Display.
- Configure the ViewMarq LED Message Display.
- Create and download a Message List to the ViewMarq LED Message Display.

NOTE: The ViewMarq software can be downloaded for free at http://support.automationdirect.com/downloads.html

Additional Help and Support

- For product support, specifications, installation and troubleshooting, a User Manual can be downloaded from the On-line Documentation area of the AutomationDirect web site.
- For additional technical support and questions, call our Technical Support team at 1-800-633-0405 or 770-844-4200.

PC to LED Display Wiring

Model Ethernet Patch Cable Power Input Power Input
MD4-0112T 110–240 VAC
MD4-0124T 110–240 VAC
MD4-0212T 110–240 VAC
MD4-0224T 110–240 VAC
MD4-0412T 110–240 VAC
MD4-0424T 110–240 VAC

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Power Supply Wire Connection 1.7 in·lbs (0.2 N·m)
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Data Sheet: M4-IG Rev. E
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**ViewMarq LED Display Mounting Guidelines**

These are the general guidelines for mounting the display:

- Only qualified personnel should mount the ViewMarq LED display.
- Verify correct operation of the display on a test bench before mounting. After testing, disconnect power and communications until after the display is mounted.
- The ViewMarq LED Display is rated for indoor use only and should not be mounted outdoors.
- Protect the lens from scratches while installing the display.
- Do not remove the end caps. This will invalidate the NEMA ratings and void the warranty.
- Do not drill or cut holes in any part of the display. This will invalidate the NEMA ratings and void the warranty.

Use the appropriate hardware and fasteners (not included) to hang or suspend the display. All hardware, fasteners and mounting methods must be rated for a minimum of four times the weight of the display.

### Mounting Brackets

The ViewMarq LED message display offers flexibility in mounting. Two sets of mounting brackets including hardware are supplied with each display.

#### Wall Mounting

1. Assemble both adjustable wall brackets as shown above. Slide a bracket into the display mounting rail that runs the length of the back of the display. Repeat for the opposite end. Plate each bracket in the desired position and finger-tighten the two 5mm locking screws in each bracket to prevent them from sliding.

2. Hold the ViewMarq display in the desired mounting position and mark where the mounting bracket holes are positioned on the mounting surface.

3. Disassemble the mounting brackets, leaving the “display side” of the brackets in the display mounting rail.

4. Attach the “wall side” of the brackets to the mounting surface using appropriate fasteners for the type of mounting surface. Make sure the brackets are level with each other. (Wall mounting hardware is not included.)

#### Chain Mounting

1. Slide the chain mount brackets into the display mounting rail on each end of the display. Tighten the 5mm locking screws to 9 in-lbs. Properly tighten the cable glands to maintain the NEMA rating on the enclosure.

2. Loosen the “display side” brackets to allow movement in the display mounting rail. Align one “display side” bracket on the display with the corresponding “wall side” bracket on the wall and finger tighten the 6mm pivot screw with the flat washer and lock washer.

3. While holding the display in position slide the other “display side” bracket in the mounting rail on the display to line up with the other “wall side” bracket and insert the 6mm pivot screw with the flat washer and lock washer as shown.

4. Set the desired viewing angle and tighten the 6mm pivot screws to 6 in-lbs of torque. Tighten the 5mm locking screws to 9 in-lbs of torque.

### Installation Notes

- In order to maintain UL508 rating, flexible conduit must be used in place of included cable glands.
- The UL508 rating does not apply for a chain mounted display.
- In UL508 installations the allowable ambient air temperature range is 0 – 60 °C (32 – 140 °F)
- In order to maintain UL508 rating, discrete inputs must be powered from a Class 2 power supply.

### ViewMarq LED Display Mounting Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight with Wall Mount Brackets</th>
<th>Weight with Chain Mount Brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4-0112T</td>
<td>6.1 lbs (2.8 kg)</td>
<td>5.4 lbs (2.5 kg)</td>
</tr>
<tr>
<td>MD4-0124T</td>
<td>10.2 lbs (4.6 kg)</td>
<td>9.6 lbs (4.4 kg)</td>
</tr>
<tr>
<td>MD4-0212T</td>
<td>8.5 lbs (3.9 kg)</td>
<td>7.8 lbs (3.6 kg)</td>
</tr>
<tr>
<td>MD4-0224T</td>
<td>14.3 lbs (6.5 kg)</td>
<td>13.6 lbs (6.2 kg)</td>
</tr>
<tr>
<td>MD4-0412T</td>
<td>13.3 lbs (6.0 kg)</td>
<td>12.6 lbs (5.7 kg)</td>
</tr>
<tr>
<td>MD4-0424T</td>
<td>23.7 lbs (10.8 kg)</td>
<td>23.0 lbs (10.5 kg)</td>
</tr>
</tbody>
</table>

### ViewMarq Chain Mount Width

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Width with Chain Mount Brackets (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4-0112T</td>
<td>23.00” (589.5 mm)</td>
</tr>
<tr>
<td>MD4-0124T</td>
<td>46.21” (1173.5 mm)</td>
</tr>
<tr>
<td>MD4-0212T</td>
<td>23.00” (589.5 mm)</td>
</tr>
<tr>
<td>MD4-0224T</td>
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