Numeric Displays
Choose on of our numeric display models to monitor count, rate, down time, cycle time, target count, efficiency or variance.

Information Displays
Display real-time production information to your floor personnel.

Production Scoreboards
Improve productivity and cost effectiveness with any of our industrial scoreboards.

Safety Scoreboards
Increase your employees awareness of safety issues, help prevent accidents in the workplace and reduce liability costs.
History of EDI

Electronic Displays, Inc. specializes in large LED digit technology and applications. Established in 1982, our product line includes: counters, timers, industrial scoreboards and moving message marquees. EDI moved into its new manufacturing site, outside Chicago, in 1995. With over 25,000 square feet this facility houses all of our production needs, including software development, circuit board design, systems integration and full-service engineering and manufacturing of our products. Targeting the global market, Electronic Displays, Inc. has set up an international division to continue the expansion and growth of the business.

With over 20 years experience in the Information Communication Industry, EDI has improved efficiency, productivity and enhanced lean manufacturing for thousands of customers including top Fortune 500 companies.
Indoor / Outdoor Custom Safety Scoreboards

Design Your Safety Scoreboard!
Whether it’s indoors or outdoors, EDI can build YOUR safety scoreboard. Fields can increment automatically every 24 hours with our rate over time displays.

Perfect for “Days Since Last Injury”
Send us your design. We can make both indoor and outdoor models!

FEATURES
- Increment by One every 24 hours OR Decrement by One every 24 hours
- Battery backup to keep Internal timing
- IR Remote to easily program
- Decimal point pulses when the unit is running

WHAT’S IN THE BOX
- Bright 3” or 8” high numbers
- Battery backup to retain the last number displayed
- 5 ft., 120VAC power plug
- IR Remote with battery
- Mounting brackets
- Complete Instructions
- Factory service one-year warranty on parts and labor
- Unlimited technical phone support
LED Double-Line Message Centers

6 to 64 Characters

EDV111 Series

These double-line, tri-color models are a ready-to-run indoor message sign board. Using 5mm Super bright tri-color LEDS, it can store up to 100 messages or a total length of characters not to exceed 7000. Ideal to display production numbers, employee messages and lean manufacturing data. Multi-color message centers let you specify red, green and yellow characters or any combination of these to get your message across. Ideal to promote your business, safety messages, employee messages and more.

Communication Options

1) Ethernet IP
   Sample Add On Instructions Provided. At this time only Allen Bradley CompactLogix and ControlLogix PLC CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are NOT supported using RS Logix 500 software. Please refer to the ASCII protocol manual for examples. Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs. Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.

2) Ethernet Interface
   All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.

FEATURES

- PLC Interface - Sample AOI’s Provided
- Ethernet IP Ready
- Bright, Multicolor Display w/ ASCII Protocol To Incorporate Into Existing Software
- 15 Foot, RS232 Data Cable
- 12 Foot, 120VAC Power Plug
- 160 Degree Viewing Angle
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

TARGET: 18000 Difference 2000 Run Time 16:45
ACTUAL: 16000 Efficiency 88% Down Time 01:26
### TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Part. No.</th>
<th>EDV111-1680-MC</th>
<th>EDV111-16128-MC</th>
<th>EDV111-16160-MC</th>
<th>EDV111-16240-MC</th>
<th>EDV111-16320-MC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A</td>
<td>26&quot;</td>
<td>40&quot;</td>
<td>52&quot;</td>
<td>73&quot;</td>
<td>96&quot;</td>
</tr>
<tr>
<td>(660.4mm)</td>
<td>(1016mm)</td>
<td>(1320.8mm)</td>
<td>(1854.2mm)</td>
<td>(2438.4mm)</td>
<td></td>
</tr>
</tbody>
</table>

#### Part Numbers and Specifications

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Power</th>
<th>No. of Characters/Line (max.)</th>
<th>Character Size</th>
<th>Pixel Size Diameter</th>
<th>Pixel Pitch</th>
<th>Pixel Color</th>
<th>Weight</th>
<th>Max. viewing distance w/largest font*</th>
<th>Message Capacity</th>
<th>Operating Environment</th>
<th>Case Dimensions / Display Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDV111-1680-MC</td>
<td>120V AC ± 10%, 40 watt max.</td>
<td>One line 8 Two lines 16</td>
<td>One line 4.6&quot; Two line 2.0&quot; Array 80 x 16 pixels</td>
<td>.2&quot; (5mm) .3&quot; (7.68mm)</td>
<td>8 colors and 5 rainbow effects</td>
<td>15 lbs.</td>
<td>200 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>26'L 3'D 6' 4.7'H 24.4'L</td>
<td></td>
</tr>
<tr>
<td>EDV111-16128-MC</td>
<td>120V AC ± 10%, 40 watt max.</td>
<td>One line 12 Two lines 24</td>
<td>One line 4.6&quot; Two line 2.0&quot; Array 120 x 16 pixels</td>
<td>.2&quot; (5mm) .3&quot; (7.68mm)</td>
<td>8 colors and 5 rainbow effects</td>
<td>20 lbs.</td>
<td>200 ft.</td>
<td>100 different messages can be stored &amp; displayed, 29,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>40'L 3'D 6' 4.7'H 38.4'L</td>
<td></td>
</tr>
<tr>
<td>EDV111-16160-MC</td>
<td>120V AC ± 10%, 40 watt max.</td>
<td>One line 16 Two lines 32</td>
<td>One line 4.6&quot; Two line 2.0&quot; Array 160 x 16 pixels</td>
<td>.2&quot; (5mm) .3&quot; (7.68mm)</td>
<td>8 colors and 5 rainbow effects</td>
<td>25 lbs.</td>
<td>200 ft.</td>
<td>100 different messages can be stored &amp; displayed, 29,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>52'L 3'D 6' 4.7'H 50.4'L</td>
<td></td>
</tr>
<tr>
<td>EDV111-16240-MC</td>
<td>120V AC ± 10%, 50 watt max.</td>
<td>One line 24 Two lines 38</td>
<td>One line 4.6&quot; Two line 2.0&quot; Array 240 x 16 pixels</td>
<td>.2&quot; (5mm) .3&quot; (7.68mm)</td>
<td>8 colors and 5 rainbow effects</td>
<td>30 lbs.</td>
<td>200 ft.</td>
<td>100 different messages can be stored &amp; displayed, 29,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>73'L 3'D 6' 4.7'H 70.4'L</td>
<td></td>
</tr>
<tr>
<td>EDV111-16320-MC</td>
<td>120V AC ± 10%, 100 watt max.</td>
<td>One line 32 Two lines 64</td>
<td>One line 4.6&quot; Two line 2.0&quot; Array 320 x 16 pixels</td>
<td>.2&quot; (5mm) .3&quot; (7.68mm)</td>
<td>8 colors and 5 rainbow effects</td>
<td>35 lbs.</td>
<td>200 ft.</td>
<td>100 different messages can be stored &amp; displayed, 29,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>96'L 3'D 6' 4.7'H 94.4'L</td>
<td></td>
</tr>
</tbody>
</table>

*Seven fonts available including wide, bold and international character sets.*
LED Multi-Line Message Centers

Up to 4 lines of Text

8 to 64 Characters

EDV111 Series

These multi-line, tri-color models are a ready-to-run indoor message sign board. Using 5mm Super bright tri-color LEDS, it can store up to 100 messages or a total length of characters not to exceed 7000. Ideal to display production numbers, employee messages and lean manufacturing data. Multi-color message centers let you specify red, green and yellow characters or any combination of these to get you message across. Ideal to promote your business, safety messages, employee messages and more.

Communication Options

1) Ethernet IP
   Sample Add On Instructions Provided.
   At this time only Allen Bradley CompactLogix and ControlLogix PLC CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are NOT supported using RS Logix 500 software. Please refer to the ASCII protocol manual for examples. Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs.
   Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.

2) Ethernet Interface
   All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.

FEATURES

- PLC Interface - Sample AOI's Provided
- Ethernet IP Ready
- Bright, Multicolor Display w/ ASCII Protocol To Incorporate Into Existing Software
- 15 Foot, RS232 Data Cable
- 12 Foot, 120VAC Power Plug
- 160 Degree Viewing Angle
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support
### TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Part. No.</th>
<th>EDV111-2480-MC</th>
<th>EDV111-24128-MC</th>
<th>EDV111-24160-MC</th>
<th>EDV111-24240-MC</th>
<th>EDV111-24320-MC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension A</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>26&quot; (660.4mm)</td>
<td>40&quot; (1016mm)</td>
<td>49&quot; (1244.6mm)</td>
<td>53&quot; (1854.2mm)</td>
<td>65&quot; (2438.4mm)</td>
</tr>
<tr>
<td><strong>Dimension B</strong></td>
<td>8.5&quot; (215.9mm)</td>
<td>8.5&quot; (215.9mm)</td>
<td>8.5&quot; (215.9mm)</td>
<td>8.5&quot; (215.9mm)</td>
<td>8.5&quot; (215.9mm)</td>
</tr>
<tr>
<td><strong>Cat. No.</strong></td>
<td>EDV111-2480-MC</td>
<td>EDV111-24128-MC</td>
<td>EDV111-24160-MC</td>
<td>EDV111-24240-MC</td>
<td>EDV111-24320-MC</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>120V AC ±10% 40 watt max.</td>
<td>120V AC ±10% 40 watt max.</td>
<td>120V AC ±10% 40 watt max.</td>
<td>120V AC ±10% 50 watt max.</td>
<td>120V AC ±10% 100 watt max.</td>
</tr>
<tr>
<td><strong>No. of Characters/Line (max.)</strong></td>
<td>One line 8 Two line 7 Three line 14 Four line 16</td>
<td>One line 13 Two line 10 Three line 19 Four line 24</td>
<td>One line 19 Two line 15 Three line 28 Four line 32</td>
<td>One line 26 Two line 20 Three line 38 Four line 48</td>
<td>One line 38 Two line 30 Three line 56 Four line 64</td>
</tr>
<tr>
<td><strong>Character size</strong></td>
<td>1 line 4.4&quot;/7.0&quot; 2 line 3.0&quot; 3 line 2.0&quot; 4 line 1.4&quot; Array 24 x 80 pixels</td>
<td>1 line 4.4&quot;/7.0&quot; 2 line 3.0&quot; 3 line 2.0&quot; 4 line 1.4&quot; Array 24 x 120 pixels</td>
<td>1 line 4.4&quot;/7.0&quot; 2 line 3.0&quot; 3 line 2.0&quot; 4 line 1.4&quot; Array 24 x 120 pixels</td>
<td>1 line 4.4&quot;/7.0&quot; 2 line 3.0&quot; 3 line 2.0&quot; 4 line 1.4&quot; Array 24 x 240 pixels</td>
<td>1 line 4.4&quot;/7.0&quot; 2 line 3.0&quot; 3 line 2.0&quot; 4 line 1.4&quot; Array 24 x 320 pixels</td>
</tr>
<tr>
<td><strong>Pixel Size Diameter</strong></td>
<td>.2&quot; (5mm) .06&quot; (20mm)</td>
<td>.2&quot; (5mm) .06&quot; (20mm)</td>
<td>.2&quot; (5mm) .06&quot; (20mm)</td>
<td>.2&quot; (5mm) .06&quot; (20mm)</td>
<td>.2&quot; (5mm) .06&quot; (20mm)</td>
</tr>
<tr>
<td><strong>Pixel Color</strong></td>
<td>8 colors and 5 rainbow effects</td>
<td>8 colors and 5 rainbow effects</td>
<td>8 colors and 5 rainbow effects</td>
<td>8 colors and 5 rainbow effects</td>
<td>8 colors and 5 rainbow effects</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>13 lbs.</td>
<td>19 lbs.</td>
<td>25 lbs.</td>
<td>31 lbs.</td>
<td>37 lbs.</td>
</tr>
<tr>
<td><strong>Max. viewing distance w/ largest font</strong></td>
<td>350 ft.</td>
<td>350 ft.</td>
<td>350 ft.</td>
<td>350 ft.</td>
<td>350 ft.</td>
</tr>
<tr>
<td><strong>Message Capacity</strong></td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
</tr>
<tr>
<td><strong>Operating Environment</strong></td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
</tr>
<tr>
<td><strong>Case Dimensions / Display Dimensions</strong></td>
<td>26&quot; x 3&quot; x 8.5&quot; (660.4mm x 76.2mm x 215.9mm)</td>
<td>40&quot; x 3&quot; x 8.5&quot; (1016mm x 76.2mm x 215.9mm)</td>
<td>49&quot; x 3&quot; x 8.5&quot; (1244.6mm x 76.2mm x 215.9mm)</td>
<td>73&quot; x 3&quot; x 8.5&quot; (1854.2mm x 76.2mm x 215.9mm)</td>
<td>96&quot; x 3&quot; x 8.5&quot; (2438.4mm x 76.2mm x 215.9mm)</td>
</tr>
</tbody>
</table>

*Seven fonts available including wide, bold and international character sets.*
LED Multi-Line Message Centers

Up to 5 lines of Text
6 to 64 Characters

EDV111 Series

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- 12 Foot, 120VAC Power Plug
- 160 Degree Viewing Angle
- Mounting Brackets
- Complete Instructions
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## TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Part. No.</th>
<th>EDV111-3280-IND</th>
<th>EDV111-32128-IND</th>
<th>EDV111-32160-IND</th>
<th>EDV111-32240-IND</th>
<th>EDV111-32320-IND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim. A</td>
<td>26&quot; (660.4mm)</td>
<td>40&quot; (1016mm)</td>
<td>49&quot; (1320.8mm)</td>
<td>73&quot; (1854.2mm)</td>
<td>96&quot; (2438.4mm)</td>
</tr>
<tr>
<td>Dim. B</td>
<td>11&quot; (279.4mm)</td>
<td>11&quot; (279.4mm)</td>
<td>11&quot; (279.4mm)</td>
<td>11&quot; (279.4mm)</td>
<td>11&quot; (279.4mm)</td>
</tr>
</tbody>
</table>

*Seven fonts available including wide, bold and international character sets.*

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Power</th>
<th>No. of Characters/Line</th>
<th>Character size Array</th>
<th>Pixel Size Diameter Pixel Pitch</th>
<th>Pixel Color</th>
<th>Weight</th>
<th>Max. viewing distance w/largest font*</th>
<th>Message Capacity</th>
<th>Operating Environment</th>
<th>Case Dimensions / Display Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDV111-3280-IND</td>
<td>120V AC ± 10%</td>
<td>One line 8</td>
<td>1 line 4.4&quot;/7.0&quot;</td>
<td>32 x 89 pixels</td>
<td>.2&quot; (5mm)</td>
<td>15 lbs.</td>
<td>350 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>26&quot;L 3&quot;D 11&quot;H 9.5&quot;H 24.4&quot;L</td>
</tr>
<tr>
<td></td>
<td>40 watt max.</td>
<td>Two line 10</td>
<td>2 line 3.0&quot;</td>
<td></td>
<td>3&quot; (7.68mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Four line 13</td>
<td>4 line 2.0&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Five line 16</td>
<td>5 line 1.4&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDV111-32128-IND</td>
<td>120V AC ± 10%</td>
<td>One line 14</td>
<td>1 line 4.4&quot;/7.0&quot;</td>
<td>32 x 128 pixels</td>
<td>.2&quot; (5mm)</td>
<td>20 lbs.</td>
<td>350 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>40&quot;L 3&quot;D 11&quot;H 9.5&quot;H 38.4&quot;L</td>
</tr>
<tr>
<td></td>
<td>40 watt max.</td>
<td>Two line 16</td>
<td>2 line 3.0&quot;</td>
<td></td>
<td>3&quot; (7.68mm)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Four line 21</td>
<td>4 line 2.0&quot;</td>
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<tr>
<td></td>
<td></td>
<td>Five line 25</td>
<td>5 line 1.4&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDV111-32160-IND</td>
<td>120V AC ± 10%</td>
<td>One line 17</td>
<td>1 line 4.4&quot;/7.0&quot;</td>
<td>32 x 169 pixels</td>
<td>.2&quot; (5mm)</td>
<td>25 lbs.</td>
<td>350 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>49&quot;L 3&quot;D 11&quot;H 9.5&quot;H 47.4&quot;L</td>
</tr>
<tr>
<td></td>
<td>40 watt max.</td>
<td>Two line 20</td>
<td>2 line 3.0&quot;</td>
<td></td>
<td>3&quot; (7.68mm)</td>
<td></td>
<td></td>
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<td></td>
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<td>4 line 2.0&quot;</td>
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<tr>
<td></td>
<td></td>
<td>Five line 32</td>
<td>5 line 1.4&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDV111-32240-IND</td>
<td>120V AC ± 10%</td>
<td>One line 26</td>
<td>1 line 4.4&quot;/7.0&quot;</td>
<td>32 x 240 pixels</td>
<td>.2&quot; (5mm)</td>
<td>35 lbs.</td>
<td>350 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>73&quot;L 3&quot;D 11&quot;H 9.5&quot;H 71.4&quot;L</td>
</tr>
<tr>
<td></td>
<td>50 watt max.</td>
<td>Two line 29</td>
<td>2 line 3.0&quot;</td>
<td></td>
<td>3&quot; (7.68mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Four line 40</td>
<td>4 line 2.0&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Five line 48</td>
<td>5 line 1.4&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDV111-32320-IND</td>
<td>120V AC ± 10%</td>
<td>One line 35</td>
<td>1 line 4.4&quot;/7.0&quot;</td>
<td>32 x 320 pixels</td>
<td>.2&quot; (5mm)</td>
<td>45 lbs.</td>
<td>350 ft.</td>
<td>100 different messages can be stored &amp; displayed, 28,000 characters</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>96&quot;L 3&quot;D 11&quot;H 9.5&quot;H 94.4&quot;L</td>
</tr>
<tr>
<td></td>
<td>100 watt max.</td>
<td>Two line 40</td>
<td>2 line 3.0&quot;</td>
<td></td>
<td>3&quot; (7.68mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Four line 53</td>
<td>4 line 2.0&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Five line 64</td>
<td>5 line 1.4&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Max. viewing distance w/largest font* refers to the maximum distance at which the largest font size can be read. The message capacity indicates the number of messages that can be stored and displayed, along with the character limit. The operating environment includes temperature and humidity specifications, with non-condensing conditions ensuring the display remains clear and operational in varying climates.
An **ANDON** is a visual and audible response notification tool (Jidoka), which is comprised of various combinations of lights and sounds. When production personnel have any issue on the floor, they simply turn on the ANDON to signal for help.

Once the system is turned on, the lights and sounds alert the support personnel who can quickly address the problem.

An ANDON promotes visual factory and serves two goals. First, it enables the production personnel to remain at their workstation when they have an issue.

Second, it reduces response time and more efficiently gets the support personnel to the line where they are needed to get the line back up and running.

**What an ANDON System Does**

- Allows timely corrective actions by alerting personnel when abnormal conditions occur.
- Allows team leaders to spend less time and effort monitoring the situation, and more time solving abnormalities.
- Allows operation teams to monitor equipment and personnel more effectively.
- It can act as a two way communication device e.g. when indicator returns to green; this tells everybody it has “back to normal”.

**The Direct Benefits of an ANDON System**

- Control of the production.
- Operators have the ability to “stop call wait”.
- Defect reportability & correction, operators can report faults immediately and countermeasures can be implemented at source.
- Workable design highlights problems with work density.

- Factory Direct Sales
- Worldwide Sales
- Ultra-High Precision Oscillator
- Super-Bright LEDs
- Anodized Aluminum Frame
What's An ANDON?

An ANDON is a visual and audible response notification tool (Jidoka), which is comprised of various combinations of lights and sounds. When production personnel have any issue on the floor, they simply turn on the ANDON to signal for help. Once the system is turned on, the lights and sounds alert the support personnel who can quickly address the problem.

An ANDON promotes visual factory and serves two goals. First, it enables the production personnel to remain at their workstation when they have an issue. Second, it reduces response time and more efficiently gets the support personnel to the line where they are needed to get the line back up and running.
A four digit up-timer, that times by MM:SS or HH:MM. Other formats are available (see next page). A terminal strip is provided to wire two customer-supplied, contact closure inputs for counting and resetting to "00:00". Either a "wet" or "dry" contact can be used. EDI supplies an on-board power supply (14VDC) to hardwire a photo-eye, foot switch, push-button switch, etc. The timer starts at "00:00" and increments by the specified time using an on/off switch. A momentary switch will reset the unit to "00:00. Up to 12 digits available.

Two types of wiring inputs are provided. A “wet” contact is designed for the customer to apply a voltage to activate the display. A “dry” contact is activated by using an on-board voltage (14VDC) that allows the customer activate the display. Typical customer-supplied driving devices include a photo-eye, limit switch, PLC, etc.
## TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Power</th>
<th>No. of Characters/Line (max.)</th>
<th>Character size Array</th>
<th>Pixel Size Diameter/ Pixel Pitch</th>
<th>Pixel Color</th>
<th>Weight</th>
<th>Max. viewing distance w/largest font*</th>
<th>Operating Environment</th>
<th>Case Dimensions / Display Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED206-102-4D-N1</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>2.25” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>6 lbs.</td>
<td>100 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>12”L 2.5”D 4’H 2.5’H 10.4’L</td>
<td></td>
</tr>
<tr>
<td>ED406-102-4D-N1</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>4.0” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>10 lbs.</td>
<td>200 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>26”L 2.5”D 8’H 6.5’H 15.4’L</td>
<td></td>
</tr>
<tr>
<td>ED600D-102-4D-N1</td>
<td>120V AC ± 10% 50 watt max.</td>
<td>One line 4</td>
<td>6.0” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>16 lbs.</td>
<td>300 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>26”L 2.5”D 9.5’H 7.5’H 24.4’L</td>
<td></td>
</tr>
<tr>
<td>ED800D-102-4D-N1</td>
<td>120V AC ± 10% 60 watt max.</td>
<td>One line 4</td>
<td>8.0” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>32 lbs.</td>
<td>400 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>36”L 2.5”D 11.5’H 9.5’H 34.4’L</td>
<td></td>
</tr>
<tr>
<td>ED1200D-102-4D-N1</td>
<td>120V AC ± 10% 100 watt max.</td>
<td>One line 4</td>
<td>12.0” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>40 lbs.</td>
<td>600 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>54”L 2.5”D 17.5’H 16.1’H 52.4’L</td>
<td></td>
</tr>
<tr>
<td>ED1800D-102-4D-N1</td>
<td>120V AC ± 10% 100 watt max.</td>
<td>One line 4</td>
<td>16” 2” (5mm) .08” (20mm)</td>
<td>Red (Standard) Green or Amber</td>
<td>58 lbs.</td>
<td>900 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>74”L 2.5”D 23.3’H 21.8’H 12.4’L</td>
<td></td>
</tr>
</tbody>
</table>

### OPTIONS

**DISPLAY:**
Add 2 digits up to 12. | Green or Amber digits available

**ENCLOSURE:**
NEMA12 / NEMA4 or NEMA4X (stainless steel) enclosure

**OPERATION:**
Increment by MM:SS or HH:MM (Standard), other formats (see below)

**RESOLUTION FORMATS:**
- SS.TH - tenths and hundredths of a second
- SSS.T - tenths of a second (3 positions for seconds)
- MM:SS - minutes and seconds (standard)
- MMM.S - tenths of a second (3 positions for minutes)
- HH:MM - hours and minutes (standard)
- HHH.M - tenths of minutes (3 positions for hours)
- MM:SS:TH - minutes, seconds, tenths and hundredths of seconds
- HH:MM:SS - hours, minutes, seconds

**OTHER:**
- Optional battery backup for time memory upon loss of power
- Relay output to activate an alarm, horn, light, etc. when unit reaches a preset value
- Optional Pollable Feature using a Serial Output
- Optional Serial Preset and Control

**Power Source:** 120 Volts AC / 60 Hz.
**Power Consumption:** Max. 6 Watts
**Current Draw:** 1.0 - 3.0 Amps
**Line Cord Length:** 6 Ft. Plug
**Indoor / Outdoor:** Indoor
**Operating Environment:** 32º - 120º F (0º – 49ºC) / 0 - 90% Humidity
**Number of Digits:** 4 Digits
**Viewing Distance:** 1” = 40-50 Feet
**LED Intensity:** 10 MCD High-Intensity Digits/Discrete LEDs
**LED Color:** Red Standard (Green/Amber Optional)
**LED Life:** 100,000 Hours
**UL Listed Power Supply:** Yes
**Enclosure Material:** Rugged Aluminum Enclosure
**Enclosure Color:** Black Powder-Coat Finish (Scratch Resistant)
**Enclosure Rating:** NEMA1 Standard / NEMA12 Optional
**Mounting Method:** Brackets Provided for Ceiling/Wall Mount
**Limited Warranty:** Factory Service One-Year Parts & Labor
What’s in the Box:
- Bright 2.25” / 4” / 6” / 8” or 12” LED Display with Four Digits
- Display Will Receive an Analog Input and Convert it to Digital
- Analog to Digital Display
- Terminal Block to Wire Customer Supplied Inputs (0 to 10VDC/4 to 20mA / More Available)
- Mounting Brackets
- Complete Instructions
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

### MEASURE
- Temperature
- Speed
- Depth
- Humidity
- Weight
- Pressure
- Voltage

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Digit Height</th>
<th>Length</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED206-105-4D-N1</td>
<td>2.25&quot;</td>
<td>12&quot;</td>
<td>4&quot;</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>ED406-105-4D-N1</td>
<td>4.0&quot;</td>
<td>20&quot;</td>
<td>8&quot;</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>ED600D-1-105-4D-N1</td>
<td>6.0&quot;</td>
<td>26&quot;</td>
<td>9.4&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>ED800D-1-105-4D-N1</td>
<td>8.0&quot;</td>
<td>36&quot;</td>
<td>11.4&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>ED1200D-I-105-4D</td>
<td>12.0&quot;</td>
<td>48&quot;</td>
<td>17.6&quot;</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>
Available in double sided format

**ED206-105-4D-N1**
- 2.25" High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Viewable up to 100 Feet Away
- Standard 4 to 20 mA Input / Other Available Dimensions: 12"L x 4"W x 2.25"D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display. Standard analog inputs include: 4 to 20 mA or 0 to 10VDC. Others Available Upon Request.

**ED406-105-4D-N1**
- 4" High, 4 Digit, Analog to Digital System. CALL FOR QUANTITY DISCOUNTS! Indoor, 4- digit, Viewable up to 200 Feet Away
- Standard 4 to 20 mA Input / Other Available Dimensions: 20"L x 8"W x 2.25"D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display. Standard analog inputs include: 4 to 20 mA or 0 to 10VDC. Others Available Upon Request.

**ED600D-105-4D-N1**
- 6" High, 4 Digit, Analog to Digital System. Indoor, 4- Digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 26" L x 9.4" H x 3.0" D

Keep you employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.

**ED800D-105-4D-N1**
- 8." High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 36" L x 11.4" H x 3.0" D

Keep your employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.

**ED1200D-105-4D-N1**
- 12.0 inch, 4 digit, Analog to Digital System. Indoor, 4- digit, Standard 4 to 20 mA Input / Other Available. Dimensions: 48" L x 17.62" H x 2.25" D

Keep you employees and customers informed with large analog to digital readouts. Convert your analog signal for temperature, speed, weight measurements to a large digital display.

**OUTDOOR - ED1200D-E-105-4D-N4**
- 12" High, 4 Digit, Analog to Digital System. Outdoor, 4- digit, Dimensions: 44" L x 15" H x 4" D

**ED1800D-I-105-4D-N4**
- 18" High, 4 Digit, Analog to Digital System. Indoor, 4- digit, Dimensions: 69" L x 23.25" H x 3.0" D
4 Digit Up-Counters

1 line of text

4 Characters

109 Series

A four digit up-counter, that increments by one from “0” to “9999.” A terminal strip is provided to wire two customer-supplied, contact closure inputs for counting and reset to 0. Either a “wet” or “dry” contact can be used. EDI supplies an on-board power supply to hardwire a photo-eye, foot switch, push-button switch, etc.

Options

DISPLAY: Add 2 digits up to 12. | Green or amber digits

ENCLOSURE: NEMA12 or NEMA4X (stainless steel) enclosure

OPERATION: Variable count: Increment by a different value (ex. count by 2 for every contact closure)
Multiple inputs: a secondary input will be used for incrementing or decrementing

OTHER: Battery backup to retain number of counts upon loss of power
Relay output to activate an alarm, horn, light, etc. when unit reaches a preset value
Polling option to a PC to record results

FEATURES

- Long Durability - 10 Years
- Durable NEMA rated enclosure
- Mounting Brackets
- Low maintenance cost
- 6 ft. business line cord
- One-year limited warranty
- Low energy consumption
- Acrylic face
- Attention-getting LEDS
- Option for 6, 8, 10, 12 digits

WIRING: Two types of wiring inputs are provided. A “wet” contact is designed for the customer to apply a voltage to activate the display. A “dry” contact is an on-board voltage that the customer uses to activate the display. Input specifications: 5 to 24VDC
## TECHNICAL INFORMATION

### Indoor Style

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Power</th>
<th>No. of Characters/Line (max.)</th>
<th>Character size Array</th>
<th>Pixel Size Diameter</th>
<th>Pixel Pitch</th>
<th>Pixel Color</th>
<th>Weight</th>
<th>Max. viewing distance w/ largest font*</th>
<th>Operating Environment</th>
<th>Case Dimensions / Display Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED206-109-4D-N1</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>2.25”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>6 lbs.</td>
<td>100 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>12”L 2.5”D 4”H / 2.5”H 10.4”</td>
</tr>
<tr>
<td>ED406-109-4D-N1</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>4.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>10 lbs.</td>
<td>200 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>28”L 2.5”D 8”H / 6.5”H 18.4”</td>
</tr>
<tr>
<td>ED600D-109-4D-N1</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>6.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>16 lbs.</td>
<td>300 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>28”L 2.5”D 9.4”H / 7.9”H 24.4”</td>
</tr>
<tr>
<td>ED800D-109-4D-N1</td>
<td>120V AC ± 10% 50 watt max.</td>
<td>One line 4</td>
<td>8.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>32 lbs.</td>
<td>400 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>36”L 2.5”D 11.4”H / 9.9”H 34.4”</td>
</tr>
<tr>
<td>ED1200D-109-4D-N1</td>
<td>120V AC ± 10% 100 watt max.</td>
<td>One line 4</td>
<td>12.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>40 lbs.</td>
<td>600 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>54”L 2.5”D 17.6”H / 16.1”H 52.4”</td>
</tr>
<tr>
<td>ED1800D-109-4D-N1</td>
<td>120V AC ± 10% 100 watt max.</td>
<td>One line 4</td>
<td>18”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red (Standard)</td>
<td>Green or Amber</td>
<td>58 lbs.</td>
<td>900 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>74”L 2.5”D 23.3”H / 21.6”H 72.4”</td>
</tr>
</tbody>
</table>

### Outdoor Style

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Power</th>
<th>No. of Characters/Line (max.)</th>
<th>Character size Array</th>
<th>Pixel Size Diameter</th>
<th>Pixel Pitch</th>
<th>Pixel Color</th>
<th>Weight</th>
<th>Max. viewing distance w/ largest font*</th>
<th>Operating Environment</th>
<th>Case Dimensions / Display Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED400D-109-4D-N4</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>4”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red</td>
<td>6 lbs.</td>
<td>200 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>22”L 3”D 11”H / 9.5”H 20.4”</td>
<td></td>
</tr>
<tr>
<td>ED600D-109-4D-N4</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>6.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red</td>
<td>10 lbs.</td>
<td>300 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>28”L 3”D 12”H / 10.5”H 26.4”</td>
<td></td>
</tr>
<tr>
<td>ED800D-109-4D-N4</td>
<td>120V AC ± 10% 40 watt max.</td>
<td>One line 4</td>
<td>8.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red</td>
<td>16 lbs.</td>
<td>400 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>36”L 3”D 14”H / 12.5”H 34.4”</td>
<td></td>
</tr>
<tr>
<td>ED1200D-109-4D-N4</td>
<td>120V AC ± 10% 50 watt max.</td>
<td>One line 4</td>
<td>12.00”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red</td>
<td>32 lbs.</td>
<td>600 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>51”L 3”D 21”H / 19.5”H 49.4”</td>
<td></td>
</tr>
<tr>
<td>ED1800D-109-4D-N4</td>
<td>120V AC ± 10% 100 watt max.</td>
<td>One line 4</td>
<td>18”</td>
<td>2” (5mm) .08” (20mm)</td>
<td>Red</td>
<td>40 lbs.</td>
<td>900 ft.</td>
<td>32-120°F 0-95% relative humidity non-condensing</td>
<td>75”L 3”D 26”H / 24.5”H 73.4”</td>
<td></td>
</tr>
</tbody>
</table>

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135 S. Church Street • Addison, IL 60101
Phone: 630-628-0658 • Toll-Free: 800-367-6056 • Fax: 630-628-0936
www.electronicdisplays.com
Rate Counters With Large, Bright LED Numbers

A multiple digit display that increments by a user specified time and amount. Free PC-based software or an optional remote keyboard (ED4150 can be used to present and run/hold the display.

Available with up to 16 Digits

Takt time indicates a pace or rate of manufacturing matched to customer demand. Takt time is used in lean manufacturing to align production time to demand where there are linked manufacturing processes. For example, advance by 3 every 10 seconds, advance by 1 every minute.

The display can also “freeze” (pause) and resume timing, reset to “0” by using the keypad (included) or through two customer-supplied contact closures. The increment value and the time interval are entered through the remote keypad (ED4150) or serially via a PC-based program (provided with the display).

<table>
<thead>
<tr>
<th>Available model lengths</th>
<th>2.25&quot;</th>
<th>4.0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Digit Model</td>
<td>12&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>6 Digit Model</td>
<td>16&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>8 Digit Model</td>
<td>20&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>10 Digit Model</td>
<td>24&quot;</td>
<td>42&quot;</td>
</tr>
<tr>
<td>12 Digit Model</td>
<td>28&quot;</td>
<td>50&quot;</td>
</tr>
<tr>
<td>14 Digit Model</td>
<td>32&quot;</td>
<td>58&quot;</td>
</tr>
<tr>
<td>16 Digit Model</td>
<td>36&quot;</td>
<td>64&quot;</td>
</tr>
</tbody>
</table>

PERFECT FOR

- Assembly Line Production
- Exhibits and Museums
- Trade Shows
- Schools and Retail Locations
INCLUDES KEYPAD! Takt time indicates a pace or rate of manufacturing matched to customer demand. Takt time is used in lean manufacturing to align production time to demand where there are linked manufacturing processes. For example, advance by 3 every 10 seconds, advance by 1 every minute.

Available in double sided format

- **ED406-115-4D-N1-KY**
  4" High, 4 Digit Variable “Rate Over Time” Counter.
  CALL FOR QUANTITY DISCOUNTS! Indoor, 4 Digit, Dimensions: 20" L x 8" H x 2.25" D

- **ED600D-115-4D-N1-KY**
  6" High, 4 Digit, Variable “Rate Over Time” Counter.
  Indoor, 4 Digit, Dimensions: 26" L x 9.4" H x 3.0" D

- **ED800D-I-115-6D-N1-KY**
  8" High, 6 Digit, Variable “Rate Over Time” Counter.
  Indoor, 6 Digit, Dimensions: 48" L x 11.4" H x 3.0" D

- **ED1200D-115-4D-N1-KY**
  12" High, 4 Digit, Variable “Rate Over Time” Counter.
  Indoor, 4 Digit, Dimensions: 54" L x 17.6" H x 3.0" D

- **ED1800D-115-4D-N1**
  18" High, 4 Digit, Variable “Rate Over Time” Counter.
  Indoor, 4 Digit, Dimensions: 69" L x 23.25" H x 3.0" D

- **ED4150 - Remote Numeric Keypad**
  Remote Keypad with 10 feet of cable (standard). Other lengths available. Communicate to our numeric displays including serial, timers, rate over time and production scoreboards.
**System Integration**

**ED25MPC-4L-N1**
*Scrolling Message Optional*

* Case Size: 42” x 16” x 2.0”
  ** Four Lines

**What’s in the Box:**
- Bright 2.25” High LED Display with Four Digits / Five Digits on the Bottom Line (”-” Sign)
- 2 Lines of Numerics / Bottom Line is a Scrolling Message Sign
- Top Line Counts Up or is Fixed / 2nd Line Upcounts / 3rd Line Calculates the Difference
- Customer-Designed Lettering (White, Vinyl)
- Mounting Brackets
- Complete Instructions (Download a .pdf)
- Factory Service One-Year Warranty on Parts and Labor
- Unlimited Technical Phone Support

**Operation:** The top line is set as a fixed number or advance by a specified value at a specified time (count by one every 10 seconds).
The middle line advances by one for every contact closure. Inputs can be a momentary switch, photo-eye, PLC, etc.
The third line internally calculates the difference. The customer can define lettering, number of digits and lines and operation.
The bottom line is an optional 16 character moving sign that scrolls pre-programmed messages.
Ideal to show employees production status and improve efficiency.

**Network Communication:** An Ethernet card option is available with these scoreboard displays that will easily add it to an existing network. Each display can be given an individual IP address and then accessed from anywhere in the plant.

**IMPROVE**
- Efficiency
- Quality
- Cost Savings
- Production
- Employee Motivation

**MONITOR**
- Production Hours
- Line Speed
- Line-Down Time
- Loading / Unloading Time

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**Proposed Connectivity Diagram**

- PLC or Machine with Serial Port Output
- Ethernet Capability - Communicate to Multiple Displays
- Promote Lean Manufacturing
- RS232/RS422/RS485/ETHERNET
- Production Control Display
- Automated Machinery
- Manual Assembly Line
- Quality Control
- Switches Sensors Relays
- Push Buttons
Ideal to:

– Measure OEE (Overall Equipment Effectiveness). This frequently used metric is used to monitor and improve efficiency leading to reduced costs and increased profits.
– Improve communication between employees and management.
– Reach maximum performance and efficiency.
– Increase productivity and boost employee performance.

Applications

EDI has worked with companies in many industries including automotive, food processing, packaging, printing and many more. Any place where displaying real-time information to improve production and efficiency is critical.

Electrical Specifications

Power Source 120 Volts AC / 60 Hz.
Power Consumption Max. 25 Watts (All LEDs On)
Current Draw Typical 500 mA per Field
Activation Voltage 5 to 24VDC @ 15 mA source current-active high or low
Supplied On-Board Voltage 12 VDC @ 15 mA isolated power supply
Power Cord Length 6 Foot Business Plug

Physical Specifications

Indoor / Outdoor Designed to be Installed and Viewed Indoors
Operating Environment 32º to 120º F (0º to 49ºC) / 0 to 95% Humidity
Dimensions 42” L x 16.0” H (w/message sign) x 2.25” D
Weight Approx. 35 Lbs. (w/scrolling sign)
Number of Digits Four (4) Digits on the Top Two Lines /
Five Digits on the Bottom Line For “-“ Sign
Character Height 2.25” High Numbers
Viewing Distance 80 - 100 Feet
LED Color / Acrylic Face Bright Red Standard
Green/Amber - Optional: Call For Details
LED Intensity Bright 10 MCD High-Intensity Digits

U.L. Listed Power Supply Yes
Enclosure Color / Material Black Extruded Aluminum
Enclosure NEMA Rating NEMA1 Rated- Standard
NEMA12 Rated - Optional
Mounting Method Two Mounting Brackets Provided
Mounting Method Examples (.pdf)
Limited Warranty Factory Service One-Year Parts & Labor
**Communication Options**

1) **Ethernet IP**

Sample Add On Instructions Provided. At this time only Allen Bradley CompactLogix and ControlLogix PLC CPUs that use RS Logix 5000 software are supported. Sample projects can be downloaded from the Electronic Displays, Inc. website. Allen Bradley Micrologix, SLC500 or PLC5 PLC CPUs are NOT supported using RS Logix 500 software. Please refer to the ASCII protocol manual for examples. Typically, you will need to connect the serial port from the PLC directly to the LED sign using the DF1 channel 0 port with these types of PLCs.

Add-on instructions provided are used to make ladder logic based programming very easy. These set of AOIs can be imported into your project and reused in ladder flow.

2) **Ethernet Interface**

All EDI models are available with high speed Ethernet TCP/IP communication interface in addition to RS232 and RS422/485 communication ports. This interface allows the marquee to reside on a 10/100 Mbps TCP/IP network (10 Base/100 Base T Ethernet) via an RJ45 port. Use Ethernet models for easy networking of the EDI marquees with 100 meters being the maximum distance between two nodes. For distances greater than 100 meters repeaters can be used to extend the distance between any two nodes.

**COMMUNICATION VIA**

- Ethernet IP
- Ethernet Interface
- Serial RS232
- Serial RS485
- Wireless
- ASCII Protocol To Incorporate Into Existing Software
Electronic Displays manufactures **serial input displays** with numeric digits ranging from 2.25” to 18” in character height. Flexibility in design enables these large digital serial displays to be interfaced with many host devices including PCs, PLCs, scales, master clocks, and panel meters that feature a serial communication port. In multi-drop applications, several options of interface and addressing further enhance the flexibility of these large digital serial displays. Furthermore, an optional output relay can be provided for annunciation purposes.

**Network Communication** – An Ethernet card option is available to add these serial displays to an existing network. Each display will be given an individual IP address and then accessed from anywhere in the plant.

### COMMUNICATION

- **RS232**
  - Serial communication for use when a single display is located less than 50 feet from the controlling display.

- **RS422/485**
  - Serial communication for distances greater than 50 feet from the controlling display or when multi-dripping displays (more than one display from the same controlling device).

- **LAN/Ethernet**
  - With this option, displays can act as nodes on a LAN system and receive information via Ethernet. Each display has an IP address.

- **Modem**
  - With this option, displays include a modem package and can be communicated with over the phone lines.

- **Wireless**
  - With this option, each display has a wireless receiver that can be controlled from 500 feet away from the transmitter.

### PROTOCOL

- **Proprietary**
  - Protocol used with all Electronic Displays software packages.

- **ASCII**
  - User written code. Standard protocol using typical 128 ASCII code.

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![Diagram](image-url)
Communication Options

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Electronic Displays Inc.
Full Service Systems Integrator
TESTIMONIALS

LED UP-TIMER
Used to Time Truck Loading Times
“This LED Timer display is acting exactly as we planned. The dock workers have to keep up with our schedule and this display alerts them throughout the docking area.”
Logistics Planner
Popular Delivery Company

ED400MQC Production Control Board
Used to Establish Production Schedules
“We installed the new firmware, and it is operating as expected. Please accept a hearty thank you to your management, engineering staff, and yourself for all of your effort. Please note that this will be added to our standard product offering, and we’re expecting an order for 14 more of the signs within the next 2 months. We appreciate your support and effort.”
Vice-president, Sales
Fortune 500 Company

Digital Safety Scoreboards
Used to Inform Employees and Management that “Safety is Number One!”
“These LED safety displays are perfect for keeping track of our days since the last injury. Our employees notice them as they begin their shifts and our insurance company is reducing our liability insurance! Thanks to the entire EDI staff for their help in picking out the right sign for our needs.”
Safety Officer
Fortune 500 Company
Electronic Displays, Inc. is a full service manufacturer dedicated to providing quality LED displays to the Manufacturing Industry. We offer a complete range of LED communication products.

We have designed this catalog to make your information display selection and purchase as easy as possible. We look forward to serving your informational display needs.

**General Policies**

**Payment Terms**        Net 30 days to approved firms.
**Shipping Terms**        F.O.B. shipping point. A percent handling charge will apply to all orders.
**Return Policy**         Merchandise that is received damaged or not in accordance with packaging papers should be reported within five days. Do not return items without an RMA number from your EDI Representative. Items incorrectly ordered are subject to a restocking charge.
**Warranty**              Items sold by EDI are covered by our warranty. All warranty claims are subject to the conditions of our warranty.
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