

GE  
Lighting

# Tetra<sup>®</sup> MAX

LED Lighting System

Our **brightest** solution for  
**medium** channel letters



imagination at work

# Tetra<sup>®</sup> MAX

## Maximized Output. Minimized Expense.

Created specifically for medium channel letters the **Tetra MAX** LED system is **28%** brighter than our previous product, delivers incredibly uniform light, installs easily and operates efficiently. Working closely with sign builders and owners, we've refined our design to improve performance while reducing the amount of product required, further reducing installation and material costs.

**28% Brighter!**

### Powerful OptiLens<sup>™</sup>



**Tetra MAX** features **OptiLens<sup>™</sup>** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with remarkable uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.

### 6% Greater loading is a competitive advantage

Our system can now operate 64 feet of product per 60W power supply (up from 60 feet in our previous design) for even greater material and installation labor savings.





a product of  
**ecomagination™**

## Can cut product required almost in half

Many LED systems use about 15 LED modules in 2 rows to fill a capitol "T" channel letter that's 2.5 feet high.

Improved **Tetra MAX**, requires just 8 LED modules to fill the exact same letter (giving up some brightness) while providing outstanding uniformity. That's **46% fewer modules**.

**Use one row, not two.** **Tetra MAX** stretches stroke spacing to an impressive 9 inches in a 4-inch depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.



## Tetra® MAX High Output

**30% Brighter!**

When extreme brightness is desired, **Tetra MAX High Output** delivers with White and Red options. This super bright system is now **30%** brighter than our previous product.

## Total GE Reliability

To ensure every **Tetra MAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.

## Components

| SKU              | Description   | Package Quantity                   |
|------------------|---|------------------------------------|
| GEMX71-2         | Tetra MAX 7100K   | 100 ft (30.48 m)/box (200 modules) |
| GEMX50-2         | Tetra MAX 5000K   | 100 ft (30.48 m)/box (200 modules) |
| GEMX41-2         | Tetra MAX 4100K   | 100 ft (30.48 m)/box (200 modules) |
| GEMX32-2         | Tetra MAX 3200K   | 100 ft (30.48 m)/box (200 modules) |
| GEMXH71-2        | Tetra MAX High Output 7100K                                       | 100 ft (30.48 m)/box (200 modules) |
| <b>GEMXH50-2</b> | <b>Tetra MAX High Output 5000K</b>                                | 100 ft (30.48 m)/box (200 modules) |
| GEMXH41-2        | Tetra MAX High Output 4100K                                       | 100 ft (30.48 m)/box (200 modules) |
| GEMXH32-2        | Tetra MAX High Output 3200K                                       | 100 ft (30.48 m)/box (200 modules) |
| GEMXHRD-1        | Tetra MAX High Output Red   | 100 ft (30.48 m)/box (200 modules) |
| GEMXRD-1         | Tetra MAX Red   | 100 ft (30.48 m)/box (200 modules) |
| GEMXGL-1         | Tetra MAX Green   | 100 ft (30.48 m)/box (200 modules) |
| GEMXBL-1         | Tetra MAX Blue  | 100 ft (30.48 m)/box (200 modules) |
| GEMXPO-1         | Tetra MAX Orange  | 100 ft (30.48 m)/box (200 modules) |
| GEMXRC-1         | Tetra MAX Red-Orange  | 100 ft (30.48 m)/box (200 modules) |
| GEMXYG-1         | Tetra MAX Amber   | 100 ft (30.48 m)/box (200 modules) |
| 9409             | 18 AWG Supply Wire (0.82 mm <sup>2</sup> )                        | 500 ft /spool (152.4 m)            |
| 191600041        | 22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm <sup>2</sup> ) | 500/ PK                            |
| 192160004        | 18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm <sup>2</sup> )   | 500/ PK                            |

## Technical Specifications

| Color                              | Wavelength          | Typical Brightness (lumens/module) | Typical Brightness (lumens/ft.) | Energy Consumption (Strip/Module) | Energy Consumption (System/Module) | Power Supply Loading     | Viewing Angle |
|------------------------------------|---------------------|------------------------------------|---------------------------------|-----------------------------------|------------------------------------|--------------------------|---------------|
| Tetra MAX White                    | 7100K, 5000K        | 52                                 | 105                             | 0.46                              | 0.54                               | 64ft (128 modules)       | 150           |
| Tetra MAX Warm White               | 4100K, 3200K        | 47, 43                             | 95, 86                          | 0.46                              | 0.54                               | 64ft (128 modules)       | 150           |
| <b>Tetra MAX High Output White</b> | <b>7100K, 5000K</b> | <b>82</b>                          | <b>165</b>                      | <b>0.72</b>                       | <b>0.85</b>                        | <b>40ft (80 modules)</b> | <b>150</b>    |
| Tetra MAX High Output Warm White   | 4100K, 3200K        | 75,68                              | 150, 136                        | 0.72                              | 0.85                               | 40ft (80 modules)        | 150           |
| Tetra MAX High Output Red          | 625nm               | 16                                 | 31                              | 0.41                              | 0.49                               | 71ft (142 modules)       | 150           |
| Tetra MAX Red                      | 625nm               | 14                                 | 27                              | 0.48                              | 0.59                               | 60ft (120 modules)       | 150           |
| Tetra MAX Blue                     | 467nm               | 10                                 | 20                              | 0.48                              | 0.59                               | 60ft (120 modules)       | 150           |
| Tetra MAX Green                    | 530nm               | 30                                 | 60                              | 0.48                              | 0.59                               | 60ft (120 modules)       | 150           |
| Tetra MAX Orange                   | 606nm               | 13                                 | 25                              | 0.36                              | 0.44                               | 80ft (160 modules)       | 150           |
| Tetra MAX Red-Orange               | 618nm               | 12                                 | 23                              | 0.29                              | 0.36                               | 100ft (200 modules)      | 150           |
| Tetra MAX Amber                    | 589nm               | 16                                 | 21                              | 0.54                              | 0.66                               | 53ft (106 modules)       | 150           |

| Specification Item            | Specification  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
|-------------------------------|--|--|-----|-------------------|----------------|------------------|--|----------------|--|---------------------------------------|-----------------|--|---------------------------------------|-----------------|--|---------------------------------------|
| LEDs/Module                   | MAX & MAX HO White: 3 MAX HO Red: 4  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Modules/ft.                   | 2  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Cutting Resolution            | Cut on wire between every module   |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Power Supply                  | GEPS12-20 Input: 90-264VAC; Output: 12VDC<br>GEPS12-60U-NA Input: 108-305VAC; Output: 12VDC<br>GEPS12-60U-GL Input: 108-305VAC; Output: 12VDC<br>GEPS12W-60 Input: 90-264VAC; Output: 12VDC<br>GEPS12D-60U Input: 90-305VAC; Output: 12VDC   |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Maximum Supply Wire Limits    | <table border="1"> <thead> <tr> <th>60W,80W,100W,180W</th> <th>20W</th> <th>Supply Wire Gauge</th> </tr> </thead> <tbody> <tr> <td>20 ft. (6.1 m)</td> <td>120 ft. (36.6 m)</td> <td>18AWG/0.82mm<sup>2</sup> supply wire - 9409</td> </tr> <tr> <td>25 ft. (7.6 m)</td> <td></td> <td>16AWG/1.31mm<sup>2</sup> supply wire</td> </tr> <tr> <td>35 ft. (10.6 m)</td> <td></td> <td>14AWG/2.08mm<sup>2</sup> supply wire</td> </tr> <tr> <td>40 ft. (12.1 m)</td> <td></td> <td>12AWG/3.31mm<sup>2</sup> supply wire</td> </tr> </tbody> </table> <p>Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).</p> | 60W,80W,100W,180W                            | 20W | Supply Wire Gauge | 20 ft. (6.1 m) | 120 ft. (36.6 m) | 18AWG/0.82mm <sup>2</sup> supply wire - 9409 | 25 ft. (7.6 m) |  | 16AWG/1.31mm <sup>2</sup> supply wire | 35 ft. (10.6 m) |  | 14AWG/2.08mm <sup>2</sup> supply wire | 40 ft. (12.1 m) |  | 12AWG/3.31mm <sup>2</sup> supply wire |
| 60W,80W,100W,180W             | 20W  | Supply Wire Gauge                            |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| 20 ft. (6.1 m)                | 120 ft. (36.6 m)   | 18AWG/0.82mm <sup>2</sup> supply wire - 9409 |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| 25 ft. (7.6 m)                |  | 16AWG/1.31mm <sup>2</sup> supply wire        |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| 35 ft. (10.6 m)               |  | 14AWG/2.08mm <sup>2</sup> supply wire        |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| 40 ft. (12.1 m)               |  | 12AWG/3.31mm <sup>2</sup> supply wire        |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Operating Environment         | -40 °C to +60 °C   |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Module Dimensions (h x l x w) | Max White & Max HO White .031" x 2.56" x 0.55" Max HO Red 0.24" x 3.06" x 0.55"  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Sign Dimensions               | For best results, recommended sign depth is 4 inches (102mm) or greater For best results, recommended sign depth is 4 inches (102mm) or greater  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| Warranty                      | GE offers a limited system warranty of up to five (5) years  |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |
| System Certifications         | UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS, IP66 rated: separate enclosure required, damp location rated   |  |     |                   |                |                  |  |                |  |                                       |                 |  |                                       |                 |  |                                       |



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