Overview

The LightMaster programmable lighting control panel is suitable for all your lighting control needs. LightMaster panels range in size from 8 to 48 relays and are equipped with CAT-5 RJ-45 connectors for LightSync data line devices and interconnecting panels. Panels include a keyboard/LCD display along with RS232, RS485, or an optional TCP/IP port to enable PC control and programming. Add-on modules are available if you require connecting to BAS, theatrical, or security systems.

Features

- **Made in the USA** relays and hardware.
- **Programming Options** are done with an integrated keypad with 4-line LCD display or using LightMaster Pro software via RS232 or optional TCP/IP.
- **LightSync Data Line Device Ready** utilizing RJ45 connectors and standard CAT-5 cabling for data line.
- **Network capability** allows you to connect panels for up to **128 panels** and **254 LightSync devices** on the panel network.
- **Relay Groups** can consist of any relay on the network and be assigned to any of the **48 available groups** — controlled by any timer, switch, or other external commands.
- **Relay Presets** can be programmed from any relay ON/OFF patterns and be assigned to any of the **48 available presets** — controlled by any timer, switch, or other external commands.
- **Timer Scheduling** for **48 available timers** that can turn relays ON or OFF for Time-of-Day, Astronomical times, and Open/Close.
- **Clock Functions** features Automatic Astronomical calculation of Sunrise and Sunset and Adjustable Daylight Saving Time and enable/disable feature.
- **Switching Inputs** accepts virtually any type of switch input, momentary or maintained, 2- or 3-wire switch.
- **Add-On Modules** can be added to each controller, which include BACnet, Modbus RTU, Modbus ASCII, Metasy N2, LonWorks, DMX512, DTMF telephone switching and modem.
Specifications

Relays:
- **2R9 latching relay**: 120 - 277VAC @ 20 Amp for ballast and resistive loads 18,000A SCCR.
- **2-Pole latching contactors**: 208-480VAC, 20 Amps for ballast and resistive loads.

Safeguards:
- **Power surge and spike suppression** up to 123 volts on the 24VAC power input.
- **Data line surge and spike suppression** up to 8kv direct and 15kv through air (optional).
- **Memory retention** for firmware and programming up to 10 years.
- **Real-Time-Clock time retention** 45 days or greater without power.

Physical:
- Provided with pre-drilled mounting holes.
- Provided with a removable hinged locking door for flush or surface mounting.
- High voltage barriers separate Normal/Emergency and Class 1/Class 2 wiring.

Electrical:
- 120 or 277 VAC @ 1 Amp, 347 VAC optional.

Capacities:
- 1 to 48 relays (see table above).
- Contact ILC for contactor capacities.

Options:
- Panels may be fitted with a wide variety of options such as: TCP/IP, modem, DMX 512, Metasys N2, Modbus, BACnet, LonWorks, and flush mount panel cover.

Operating Environment:
- Location: Interior space.
- Operating Temp.: 0° to 50°C.
- Humidity: 10% - 90% Non-condensing.
- Atmosphere: Non-explosive/corrosive.
- Vibration: Stationary.

Certifications and Approvals:
- UL 508.
- UL 916.
- FCC Part 15.
- Title 24.
- ASHRAE compliant.

Ordering

<table>
<thead>
<tr>
<th>Panel</th>
<th>2R9 Relay(s)</th>
</tr>
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<tbody>
<tr>
<td><strong>LM</strong></td>
<td><strong>Series</strong></td>
</tr>
<tr>
<td><strong>Series</strong></td>
<td>2R9C Qty:</td>
</tr>
<tr>
<td><strong>Enclosure size needed</strong>: 8, 16, 24, 32, 40, 48</td>
<td><strong>2R9C = single pole</strong></td>
</tr>
<tr>
<td><strong>Series</strong></td>
<td>2PR Qty:</td>
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<tr>
<td><strong>2PR = two pole</strong></td>
<td><strong>(Contact ILC)</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosure Size Options (NEMA Type 1 w/cover)</th>
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</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>LightMaster 8</td>
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<tr>
<td>LightMaster 16</td>
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<tr>
<td>LightMaster 24</td>
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<tr>
<td>LightMaster 32</td>
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<tr>
<td>LightMaster 40</td>
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<tr>
<td>LightMaster 48</td>
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