



# LIGHT *Master* ENM

Extended Network Manager

Controller Add-Ons

- Expands networks to 128 Panels and 254 LightSync Devices
- Required for networks greater than 32 panels or 127 LightSync devices
- Gateway for centralized programming
- Program from PC using LightMaster Pro Extended Network Software
- Syncs data in all panels including time and date
- Fully programmable relay groups, presets, timers
- RJ45 connectors for CAT-5 data line cable
- ILC LightSync and accessory ready
- Custom configurations available
- Optional TCP/IP connection available

(NEMA-1 Screw Cover Enclosure Standard)



## Overview

The LightMaster Extended Network Manager (LM-ENM) efficiently controls all of the LightMaster panels and all the LightSync devices. Although it is required for networks with more than 32 panels or 127 Lightsync devices, it is a great solution for smaller, more complex networks, which utilize many LightSync devices. This product efficiently syncs time, date and other data on the entire network ensuring that times and clock functions operate uniformly. In conjunction with a PC and LightMaster Pro software, the LM-ENM provides easy access to system programming of all the panels in the network. The Extended Network Manager can be mounted in a facility control office, or anywhere on the network. Choose a standard enclosure or a custom enclosure with Gateways, Power and Data Management devices or other ILC devices as needed for your particular installation.

## Features

### CONTROLLER FEATURES

#### Powerful and Easy to Use

- Keypad diagnostics for panels and LightSync devices
- Power LED and ON/OFF Switch

#### Programming

- LightMaster Pro software for Windows®

#### ILC LightSync Device Ready

- Utilizes standard CAT-5 RJ-45 plug in interface
- See ILC Catalog LightSync section for other data line devices

#### Network Ready

- Expand to 128 panels and 254 LightSync devices with LightMaster Pro Extended Network software

### EXTENDED NETWORK PROGRAMMING FEATURES

#### Relay Groups

- Relays may be assigned to any of 48 available groups or presets
- Relay groups may be assigned to multiple Timers, Switch Inputs, and other panel functions

#### Relay Presets

- Relays may be programmed to any of 48 presets available
- Presets may be controlled by Switch Inputs and Timers

#### Open/Close Times

- Lighting Control Schedules may adjust based on business (retail) Open/Close hours for easy adjustment when operating hours fluctuate
- Seven standard Open/Close times and 365 custom daily Open/Close times available
- Scheduled event may be programmed to occur before, after or at Open/Close times

#### Relay Functions

- Each relay may be programmed for ON only, OFF only or ON/OFF control
- Pulsed output for control of external devices such as lighting contactors or other systems

- HID multilevel control (specialized output control for multilevel HID ballasts including warm-up sequence)

#### Switch Types

- The LightMaster may be programmed to accept virtually any type of switch input, momentary or maintained

#### Switch Input to Relay Output Mapping

- All switch to relay settings are completely soft, requiring no field rewiring when changes are required
- Any switch can control any combination of relays, groups or presets locally or across network

#### Automatic Power-Up Settings

- Relays may be programmed to automatically return to ON, OFF or remaining in the state they were in prior to the outage

#### After Hours Sweeps

- Individual relay or groups of relays may be programmed to be swept OFF during non-operational hours
- After hours OFF Sweeps can be set to occur based on time window

#### Daylight Saving Time Adjustment

- Automatic adjustment for daylight saving changes (may be enabled or disabled from software)

#### Astronomical Clock

- Automatic calculation of Sunrise and Sunset based on date and geographic position
- Scheduled events may be programmed to occur before, after or on an astro event

#### Blink Alert

- Prior to a scheduled OFF event, lighting loads programmed for a Blink Alert will be momentarily turned OFF then back ON to alert occupants. To avoid the pending OFF sweep, the user simply turns their local switch OFF, then back ON again during the adjustable period (default is 5 min.) prior to the OFF sweep

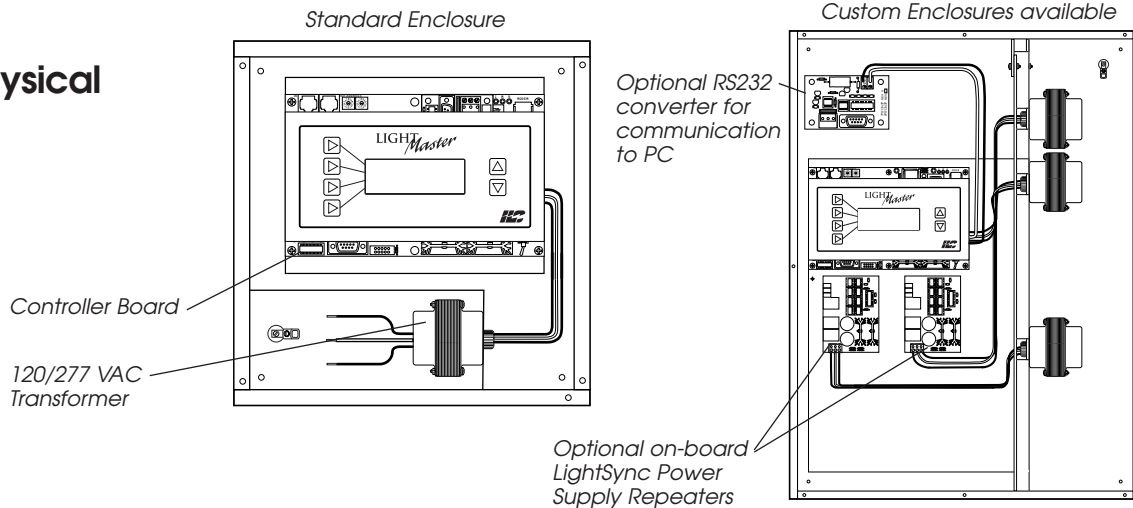
FOR USE IN  
EN  
LIGHTMASTER NETWORKS

INTELLIGENT LIGHTING  
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## Physical



*LightMaster Extended Network Managers are custom built to your installation needs (shown in NEMA style enclosures)*

## Specifications

### Physical:

- LightMaster Extended Network Managers are provided with pre-drilled mounting holes for easy mounting to unistrut framing or directly to wall
- Standard 12" x 12" x 4" NEMA-1 enclosure: contact factory for custom enclosure options

### Electrical:

- 120 or 277 VAC power supply ready

### Operating Environment:

- Location Interior space
- Operating Temperature 0° to 50° C (32° to 112° F)
- Relative Humidity 10% to 90% Non-condensing

### Certifications:

- UL, CUL
- FCC approval for commercial use
- California Title 24

### Capacities:

- Custom

### Configuration:

- 10-year minimum NVRAM memory retention in absence of power
- Minimum 45 day clock retention

### How to Order

Ordering a **LMENM**  
Order No. LMENM  
**LMENM**

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