

Matrix Programmable Controller

Automation Controllers

Category

Overview

If you are researching time clock controllers, then you probably have a pretty good idea of what you want. You are looking for a controller to save you time by providing automation for your lighting system. You are looking for the controller to be feature rich, and easy to install and use. You are looking for a controller that has a stylish look and a powerful punch, meeting and exceeding energy and industry standards. Well, look no further. With its sleek design and loaded résumé, the Matrix Programmable Controller by Marlin Controls more than meets your lighting control needs.

Photos



Matrix Programmable Controller

Typical Applications

Features

- Offices, schools
- Retail stores
- Restaurants, lounges, clubs
- Resorts, country clubs
- Hotels, ballrooms, multi-function rooms
- Hospitals

- Controls up to 256 channels and 256 relays
- Use to automatically or manually override the system by toggling relays or by recalling a preset
- Use to program the preset information including light levels and fade rates for each channel
- Built-in astronomical time clock calculates the sunrise and sunset times each day and lets you automatically adjust lighting precisely at any time up to 6 hours before or after sunrise or sunset

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Features

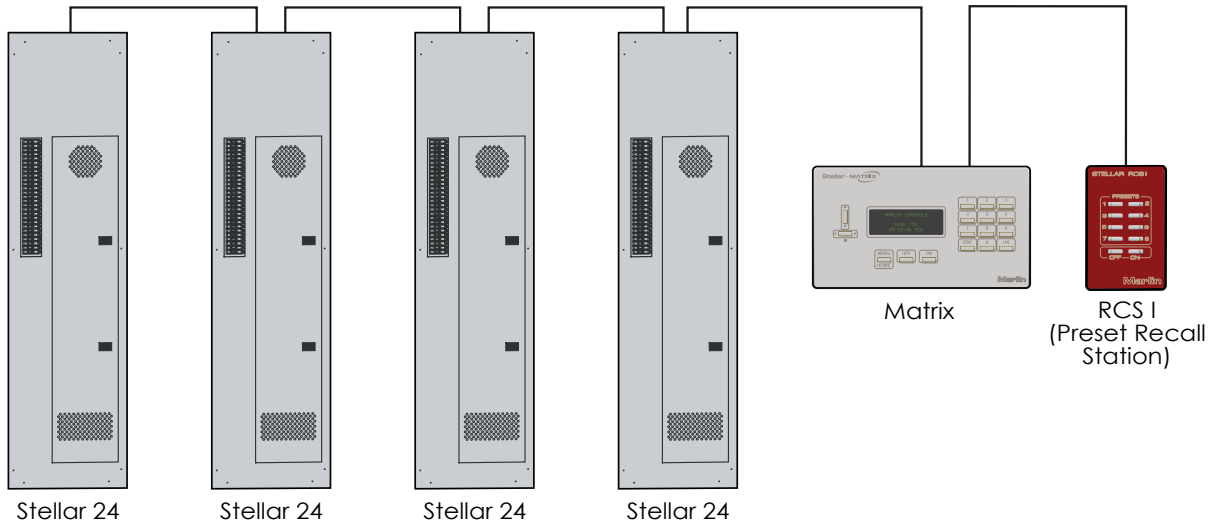
- Room combine and separate functions for up to 16 ballrooms or other multi-function room applications
- Use the optional photocell sensor to automate interior and exterior lighting according to the amount of available sunlight
- Create daily, weekly, weekday-only, or weekend-only lighting events to automatically toggle relays or recall a preset at any time of day
- Store up to 512 unique time and photocell events to recall presets, adjust channels, or toggle relays
- Create up to six user profiles, with each user having a unique set of presets, events, and settings
- Password-protected levels of access (basic and advanced) limits functionality available to different users
- Off sweep function shuts off lighting after desired lengths of time when lights are left on after working hours, and warns occupants by flashing lights before they go off
- Skip function disables lighting events on single days, weekends, or holidays
- Two programmable holiday banks, each containing up to 30 holidays
- Large backlit character or graphical LCD display (4x20)
- USB port for uploading/downloading configuration and system settings
- Increased memory for storing user-friendly names to zones and presets, as well as other settings
- Four external inputs to interface fire alarms, security alarms, occupancy sensors, and door sensors
- In switched lighting control systems, dynamically assign relays to zones and use remote keypads to control each zone
- Automatically reverts to last active settings after a power outage
- Diagnostic procedure warns users for dimmers that cannot be found, and lets users check for possible malfunctions or incorrect setup
- Compatible with Stellar Panelboard Dimming Systems, Stellar Mini Panels, and Pegasus Lighting Control Panels
- Interfaces with Stellar preset controllers such as the RCS or RMS, or the RAC room assignment controller, for dimming systems
- Interfaces with manual relay and zone keypads for switching lighting control systems
- Connect the Stellar WiFi interface or Hermes modem interface to set up the lighting system from your PC or laptop, through a wireless network, corporate LAN, or dial-up modem connection
- Meets California Energy Commission Title 24 (2005), ASHRAE 90.1, and IECC standards and requirements
- Laser-engraved faceplate with custom colors, text, and graphics

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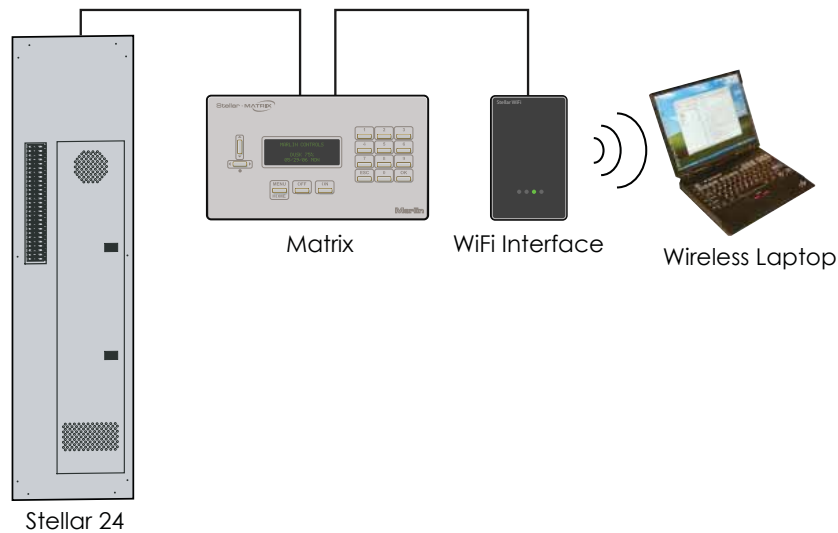
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Sample Configurations



Four Stellar dimming systems with a total of 96 dimmers, the Matrix Programmable Controller, and RCS I remote preset recall station



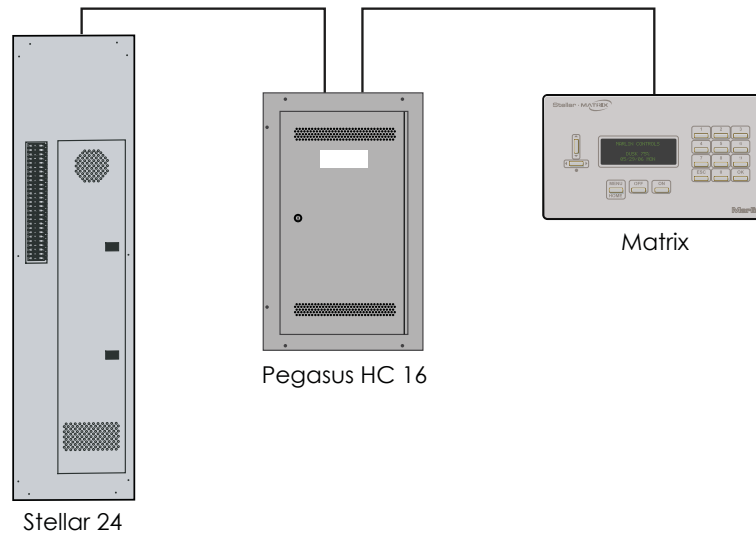
Stellar dimming system with 24 dimmers, the Matrix Programmable Controller, and WiFi Interface for control from a wireless laptop or network

Matrix Programmable Controller

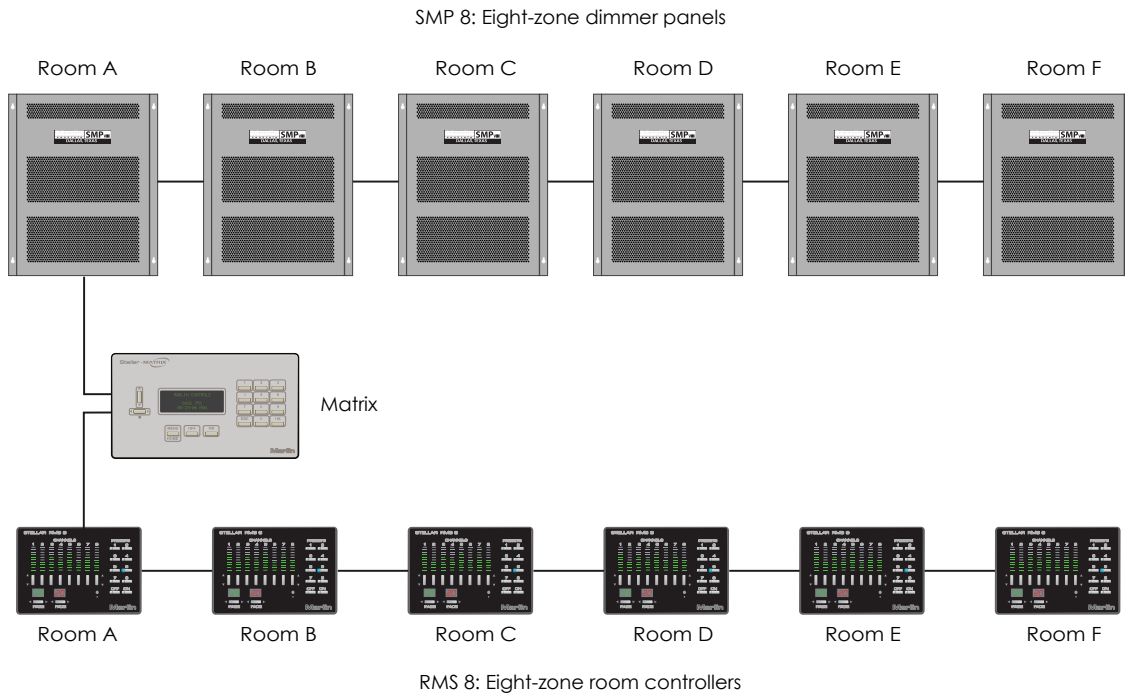
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Sample Configurations



Stellar dimming system with 24 dimmers, Pegasus HC lighting control panel with 16 relays, and the Matrix Programmable Controller



Multi-room setup with six Stellar Mini Panels, each with eight dimmers, the Matrix Programmable Controller as a master, and RMS 8 slider control stations for local control

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Specifications

Front dimensions	8.25" W x 4.50" H
Switch box dimensions	7.5" W x 3.75" H x 3.5" D (4-gang, Raco P/N 698)
Zones	Maximum 256 dimmers, maximum 256 relays
Presets	Eight, plus reprogrammable on and off presets, per profile Permanently stored in both controller and dimmer memory
Fade rate	0 to 999 seconds
Raise/lower light levels	Adjustable in 1% increments
Partitioned-room assignment	Combine/separate any combination of up to 16 rooms
Profiles	Up to six; allows unique presets and events
Time-based automation	Recall presets or switch relays at a specific time, sunrise, sunset, or at a length of time before or after sunrise or sunset
Photocell-based automation	Recall presets or switch relays at a specified reading of the ambient outdoor photocell sensor (optional)
Security	Password-based access; automatically logs users out after period of inactivity Basic user password: allows manual override functions Advanced user password: allows manual and programming functions
Off sweep	Sweep off relays, one to five hours after being turned on after business hours
Text assignment	Assign user-friendly names to presets, channels, relays, and rooms
PC interface	Allows programming of settings via USB, serial, WiFi (with WiFi Interface), or dial-up (with URAP modem interface) connection
Compatibility	Controls all Stellar Panelboard Dimming Systems, Stellar Mini Panels, Pegasus LC, and Pegasus HC Lighting Control Panels
External inputs	Four dry contact closure inputs (alarm system, door switch, motion sensor)
Backup	One-year battery backup for time clock; non-volatile flash memory for settings and data
Wiring	Requires four-conductor shielded low-voltage control cable, minimum 20-gauge (Belden #9402 recommended)
Input voltage	12 VDC
Communication	RS-485
Faceplate customization	Matte white, laser-engraved acrylic; custom colors, text, and graphics available upon request

* Information within this document is subject to change without notice.