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› [Osram Encelium EN-RP24C-120/277 Lighting Control Panel User Manual](#)

OSRAM EN-RP24C-GB2-120/277

Osram Encelium EN-RP24C-120/277 Lighting Control Panel User Manual

Model: EN-RP24C-GB2-120/277 | Brand: OSRAM

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of the Osram Encelium EN-RP24C-120/277 Lighting Control Panel. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions when installing, operating, and maintaining this product to reduce the risk of fire, electric shock, and injury to persons. This device operates with high voltage (120/277V) and should only be installed by qualified personnel in accordance with all applicable electrical codes.

- Disconnect power before installation or servicing.
- Ensure proper grounding.
- Do not operate the device if it is damaged.
- Refer to local electrical codes for specific requirements.

SETUP AND INSTALLATION

1. Unpacking and Inspection

Carefully remove the control panel from its packaging. Inspect the unit for any signs of shipping damage. Report any damage to the carrier immediately. Verify that all components listed in the packing list are present.

2. Mounting the Panel

The EN-RP24C-120/277 is designed for panel mounting. Select a suitable location that is dry, well-ventilated, and accessible for servicing. Ensure the mounting surface can support the unit's weight (approximately 41 pounds). Use appropriate fasteners for secure installation.



Figure 1: Front view of the Osram Encelium Lighting Control Panel with the access door closed. This image shows the compact, black enclosure designed for panel mounting.

3. Electrical Connections

All electrical wiring must be performed by a licensed electrician. The panel operates at 120/277 Volts and features screw-type connectors for secure wiring. Refer to the internal wiring diagram for specific terminal connections.

- **Power Input:** Connect the main power supply (120V or 277V as required) to the designated input terminals.
- **Load Connections:** Connect lighting loads to the 24 relay outputs. Each relay has a contact current rating of 24 Amps.
- **Control Wiring:** Connect any necessary control signals or network cables as per your system design.
- **Grounding:** Ensure the panel is properly grounded to prevent electrical hazards.

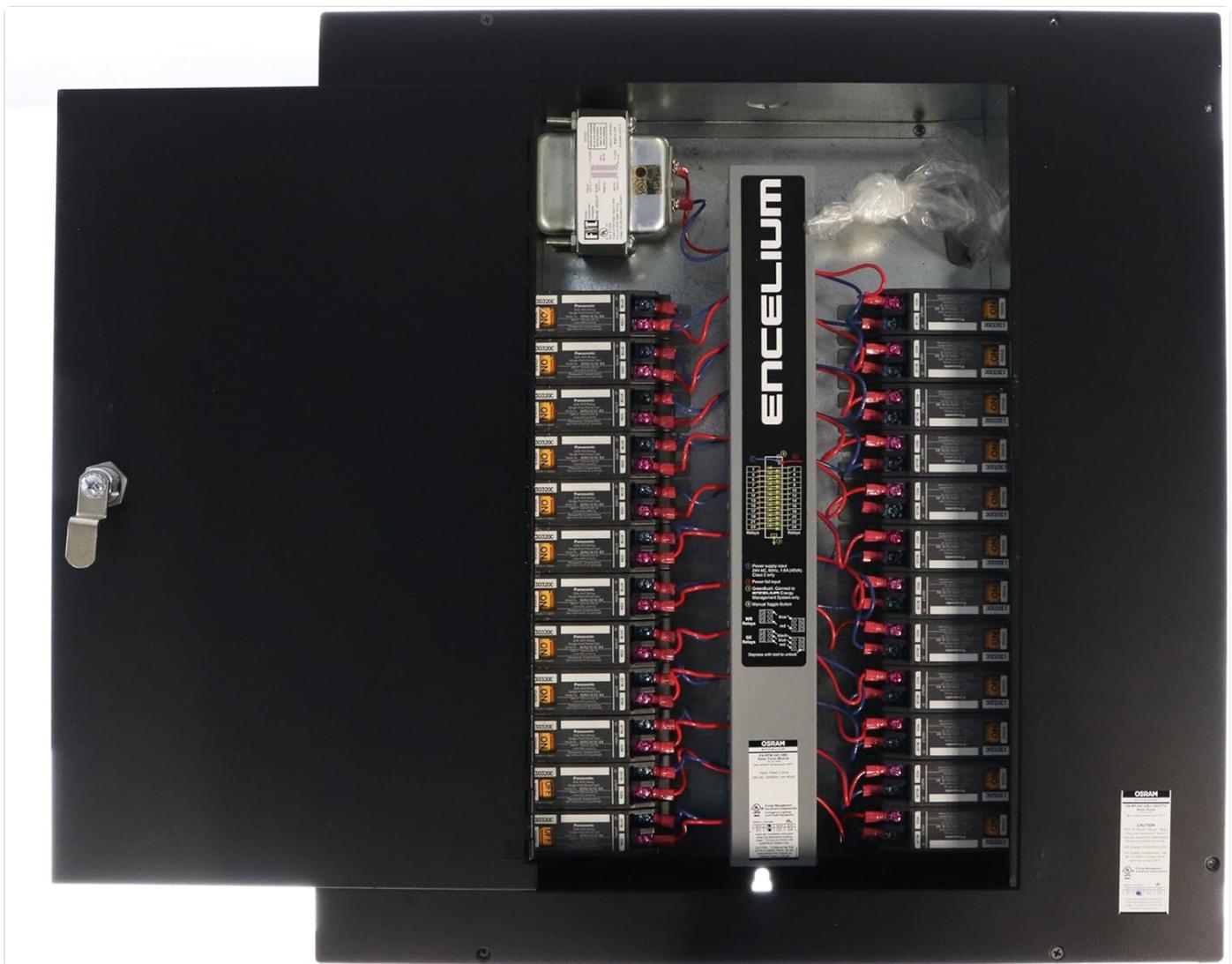


Figure 2: Internal view of the Osram Encelium Lighting Control Panel with the access door open. This image displays the 24 individual relays, internal wiring, and control board, highlighting the screw-type connectors for electrical connections.

After all connections are made, double-check all wiring for correctness and security before applying power.

OPERATING INSTRUCTIONS

The Osram Encelium EN-RP24C-120/277 Lighting Control Panel operates in an automatic mode, typically managed by an external Encelium Lighting Control System. Once properly installed and configured within the Encelium system, the panel will automatically control the connected lighting loads based on programmed schedules, sensor inputs, and user commands.

System Integration

This panel is designed to integrate seamlessly with Encelium Lighting Control Systems. Refer to your Encelium system's documentation for details on commissioning, programming, and managing the relays within the system. The panel's relays are Normally Open (NO) contact type, meaning they close to complete a circuit when activated by the control system.

Manual Override (if applicable)

Some Encelium systems or specific panel configurations may offer local manual override capabilities for individual relays or groups. Consult your system integrator or the Encelium system manual for information on any available manual controls.

MAINTENANCE

The Osram Encelium EN-RP24C-120/277 Lighting Control Panel is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

Routine Inspection

- **Annually:** With power disconnected, open the panel and visually inspect all wiring connections for tightness and signs of wear or corrosion.
- **Periodically:** Ensure the area around the panel is free from dust and debris to maintain proper ventilation.

Cleaning

Clean the exterior of the panel with a soft, dry cloth. Do not use abrasive cleaners or solvents. If internal cleaning is required, ensure power is disconnected and use a dry, lint-free cloth or compressed air to remove dust.

Component Replacement

In the event of a component failure, such as a relay, replacement should only be performed by qualified service personnel using genuine OSRAM or Encelium approved parts. Refer to the manufacturer's documentation for part numbers and replacement procedures.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your lighting control panel. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Panel not powering on.	No input power; tripped circuit breaker; loose wiring connection.	Check main power supply. Reset circuit breaker. Verify all power connections are secure (ensure power is off before checking).
Relay not switching.	No control signal from Encelium system; faulty relay; incorrect wiring to load.	Verify Encelium system is sending commands. Check relay status indicators (if present). Inspect load wiring. If relay is faulty, replace it.
Lights flickering or unstable.	Loose wiring connection; incompatible load; system communication issue.	Check all load wiring connections. Ensure connected lighting loads are compatible with relay switching. Consult Encelium system documentation for communication diagnostics.

If the problem persists after attempting these solutions, contact OSRAM technical support or a qualified service technician.

SPECIFICATIONS

Feature	Detail
Brand	OSRAM
Model Number	EN-RP24C-GB2-120/277
Product Dimensions	22 x 21 x 8 inches
Item Weight	41 pounds

Feature	Detail
Voltage	120/277 Volts
Number of Relays	24
Contact Current Rating	24 Amps
Contact Type	Normally Open
Connector Type	Screw
Mounting Type	Panel Mount
Operation Mode	Automatic
Color	Black
Power Source	Wired Electric

WARRANTY INFORMATION

Specific warranty terms for the Osram Encelium EN-RP24C-120/277 Lighting Control Panel are provided by the manufacturer, OSRAM. Please refer to the warranty documentation included with your purchase or visit the official OSRAM website for detailed warranty policies and registration information. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact OSRAM customer support. You can typically find contact information on the OSRAM official website or through your product distributor.

When contacting support, please have your product model number (EN-RP24C-GB2-120/277) and serial number (if applicable) ready.