How to make a remote-controlled distribution box

Overview

Power Distribution Box: For starters, I built a rack for my truck to throw some "off road" lights on.

Key Takeaways

You can build a remote-controlled distribution box using relays, a smart controller, and proper wiring to safely control multiple electrical loads remotely.Components Needed
• Smart Controller: Devices like the KC868-H8 or KC868-H32L allow remote control via mobile apps, PC, or voice assistants .

• Relays or AC Contactors: To switch high-power loads safely. Choose relays rated for your load voltage and current .

• Power Supply: DC 12V for the controller and relays, plus appropriate AC supply for the loads .

• Distribution Box: A plastic or metal enclosure to house all components safely .

• Wiring and Connectors: For input, output, and control signals. Include fuses or circuit breakers for safety .

• Optional Sensors: Smoke, PIR, or door sensors for automation and alerts .
Step-by-Step Guide
• Plan Your Layout: Arrange relays, controller, and terminal blocks inside the box. Ensure enough space for wiring and ventilation .

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• Mount Components: Secure the smart controller, relays, and power supply inside the enclosure using screws or mounting brackets .

• Wire the Inputs and Outputs: Connect the AC or DC power input to the relays, then wire each relay output to the corresponding load. Include fuses for each channel .

• Connect the Controller: Link the relay control inputs to the smart controller outputs. For wireless control, ensure the controller is connected to Wi-Fi or paired with a remote .

• Add Indicators: Optional LEDs on each channel help monitor which loads are active .

• Integrate Sensors (Optional): Connect sensors to the controller's input ports to trigger automatic actions or alerts via mobile apps .

• Test the System: Power on the controller and test each channel using the remote, app, or voice commands. Verify that relays switch correctly and that safety devices function properly .

Safety Considerations

• Always disconnect mains power before wiring.

• Use properly rated relays and fuses for your load.

• Ensure insulation and grounding to prevent electric shock.

• Avoid overloading circuits; calculate total load per channel.

Optional Features

• Multi-channel control: Control multiple devices independently.

• PWM control: For devices like fans, you can adjust speed via a potentiometer .

• Automation: Schedule devices or trigger them via sensors or IFTTT rules .

• Voice Control: Integrate with Alexa, Google Home, or other smart assistants . By following these steps and using a smart controller with relays, you can create a safe, flexible, and remotely controllable distribution box suitable for home, workshop, or small industrial applications.

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