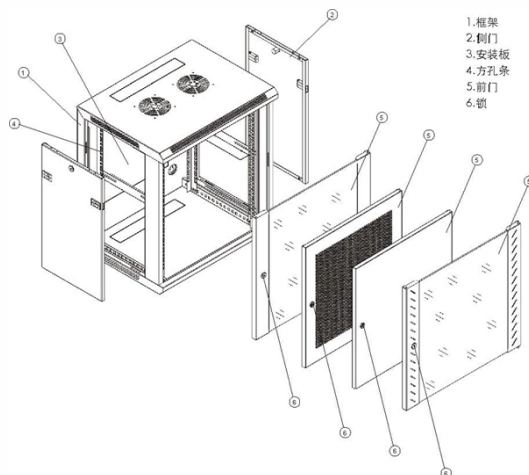


Distribution Box and Control Box Series



Overview

Distribution Box vs Control Box vs Junction Box: Key Differences and. Learn the differences between distribution boxes, control boxes, and junction boxes.

Key Takeaways

Distribution boxes distribute electrical power safely across circuits, while control boxes manage and automate the operation of machinery or processes. Distribution Box Overview

A distribution box (DB box) is a central hub that distributes incoming electrical power to multiple circuits, ensuring safe and efficient power allocation . It typically houses circuit breakers, fuses, and bus bars to protect against overloads, short circuits, and earth faults . Distribution boxes can handle main supply voltages from 220V to 690V and currents ranging from tens to hundreds of amps . They are used in homes, offices, factories, and industrial plants to manage lighting, outlets, and high-power equipment . Materials commonly used include polycarbonate, ASA, or powder-coated stainless steel, providing durability and protection against environmental factors .

Control Box Overview

A control box is designed to start, stop, regulate, and monitor machinery or processes rather than distribute power . It contains switches, push buttons, relays, contactors, and sometimes PLCs, timers, and sensors to automate operations . Control boxes typically handle low to medium voltages (24V DC to 400V AC) and are installed near machinery for centralized control . They enable automation, reduce human intervention, and execute logical sequences, such as stopping a pump when a sensor detects high pressure .

Key Differences	Feature	Distribution Box	Control Box	Primary Function
		Distribute and protect electrical power	Control and automate machinery/processes	
	Components	Circuit breakers, fuses, bus bars	Switches, relays, contactors, PLCs, sensors	
	Voltage Range	220V–690V	24V DC–400V AC	
	Application	Power distribution in buildings and industrial plants	Equipment automation and process control	
	Placement	Centralized in electrical rooms or near main supply	Near machinery or process equipment	
	Applications			

- Distribution Box: Industrial plants requiring 3-phase 400V supply, residential lighting and power circuits, office or factory power management .
 - Control Box: Automated irrigation systems, assembly line motors, water treatment pumps, or any machinery requiring automated control .
- Additional Considerations

Distribution and control boxes can be customized with IEC/ANSI-standard enclosures, various materials, and integrated components for specific industrial requirements . Outdoor versions are available with IP-rated enclosures (IP54, IP65, IP67) to ensure dustproof, waterproof, and corrosion-resistant performance . In summary, distribution boxes focus on safe power allocation, while control boxes focus on operational control and automation, and both are essential for modern electrical and industrial systems .

Article Content

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