

List of Control Boxes and Distribution Boxes



Overview

Electrical Control Panels & Distribution Boxes: Sizes, This guide explores control panels, electrical boxes, breaker panels, bus bars, junction Distributio.

Key Takeaways

Control boxes manage and automate electrical equipment, while distribution boxes safely distribute power to multiple circuits. Distribution Boxes

A distribution box (DB box) is a central hub that distributes electrical power from a main supply to multiple circuits, ensuring safety and efficiency. Key features include circuit breakers, fuses, bus bars, and sometimes smart modules for energy monitoring and remote control . Distribution boxes are classified based on function and installation:

- Main Circuit Breaker Panel: Controls the entire electrical system; used in commercial and industrial applications .
- Main Lug Panel: Connects directly to a main breaker without a main switch; often used as a sub-panel .
- Sub Panel: Distributes power to specific areas, such as floors or sections of a building .
- Fuse Box: Older type using fuses instead of breakers for circuit protection .

- Indoor Distribution Boxes: For protected environments like homes or offices .
 - Outdoor Distribution Boxes: Designed for exposure to weather, requiring higher IP ratings and durable enclosures .
 - Material Variants: Plastic (thermoplastics like PC or ASA) or metal (stainless steel, powder-coated) depending on mechanical strength and environmental exposure .
- Control Boxes

A control box houses components that start, stop, regulate, and monitor machinery or processes. Unlike distribution boxes, control boxes focus on automation and operational control rather than power distribution . Common features include switches, push buttons, relays, contactors, PLCs, timers, and sensors. Types include:

- Small Control Box: External installation for controlling small devices with input devices like buttons or touch panels .
- Free-Standing Control Box: Self-supporting enclosures for large control panels, offering high stability and earthquake resistance .
- Industrial Control Boxes: Used in factory automation, elevators, pumps, and train systems; often include thermal protection, dust and waterproofing, and electromagnetic shielding .
- Material and Design Variants: Stainless steel, polyurethane foam packing, and ventilation features to protect sensitive electronics .

Key Differences

Feature	Distribution Box	Control Box
Function	Distributes electrical power to circuits	Controls and automates machinery/processes
Components	Circuit breakers, fuses, bus bars	Relays, contactors, PLCs, switches, sensors
Voltage Range	220V–690V, high current	24V DC to 400V AC, tailored to equipment
Application	Residential, commercial, industrial power distribution	Industrial automation, process control, machinery operation
Protection	Overload, short circuit, earth fault	Environmental protection, operational safety, automation logic

Manufacturers and Suppliers

Some notable control box manufacturers include Assured Automation, PanelTEK, API Alliance, Franklin Electric Co., OSRAM SYLVANIA, and M-Tech Control Corp . Distribution boxes are widely available from industrial electrical suppliers, with options for custom engineering, material selection, and integration services . This overview provides a clear distinction between distribution boxes for power management and control boxes for operational control, along with their types, applications, and key manufacturers.

Article Content

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Learn the differences between distribution boxes, control boxes, and junction boxes.

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Distribution boxes help in organizing electrical circuits enabling proper organization in

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A distribution boxes acts as the load center and main distributor of electrical power within a

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Power Up with the Right Brands Whatever you're looking for – from 200 amp Square D main breakers and Leviton's load centers or

Breaker Boxes for Electrical Panel Systems | Lowe's

Breaker boxes support everyday electrical systems by helping you organize circuits and manage power distribution efficiently.

Distribution Boxes Types – The Complete Guide

Types of Distribution Boxes The electrical power distribution boxes are distribution boards or breaker panels.

What Is a Control Box? Components, Types, and

A control box also differs from a basic distribution box. A distribution box mainly divides

Distribution Board vs Box: Which Do You Need?

A distribution board controls and protects multiple circuits, while a distribution box usually houses local wiring or

The difference of Distribution box,distribution cabinet and control box ...

Difference between control box and distribution box The control box is suitable for factories, mines, enterprises, shopping malls,

DB Boxes & Circuit Breakers for Sale

Which DB boards are best to buy? A distribution board (also known as panelboard, breaker panel, or electric panel) is a component

Understanding Distribution Boxes:A Comprehensive Guide

A distribution boxes is an essential device that manages the safe and efficient flow of electrical power throughout

What Is a Distribution Box?

A distribution box is a device that, as the name suggests, is designed to distribute electrical power. It takes the

12 types of distribution boxes and how to choose them

Key Factors in Choosing a Distribution Box Building Type and Size: Start with where it's going. For homes, a

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