

What is the approximate price of an explosion-proof complete electrical distribution box



Overview

The Larson Electronics EPD-DB-1G-D is an explosion proof device box that provides explosion proof protection for devices used in hazardous locations.

Key Takeaways

Explosion-proof electrical and distribution boxes typically range from \$100 for small junction boxes to several thousand dollars for large, custom-certified enclosures.

Pricing Overview

The cost of explosion-proof enclosures varies widely depending on size, material, certification, and intended use. Small compact housings, suitable for junction boxes or low-voltage terminations, generally start around \$100–\$300. These are ideal for confined spaces or small I/O connections and provide basic protection in hazardous areas.

Medium-sized enclosures, often used for terminal boxes, automation systems, or general-purpose wiring interfaces, typically range from \$300–\$1,000. These models balance cost, strength, and corrosion resistance, making them suitable for industrial applications. Large or heavy-duty enclosures designed for isolating motors, pumps, or circuits in high-risk environments can cost \$1,000–\$5,000 or more, especially when made from stainless steel (AISI 304L or 316L) or reinforced materials for marine, chemical, or offshore installations.

Material and Certification Impact

Steel or stainless steel (304L/316L): Higher mechanical strength and corrosion resistance, increasing price. Aluminum: Lightweight and moderately priced, suitable for many industrial applications.

Polycarbonate or GR

P: Lower cost, corrosion-resistant, often used for smaller enclosures. Certifications such as ATEX, IECEx, UL 1203, and NEC 500 are required for hazardous locations and can affect pricing. Custom-made or pre-assembled terminal boxes with rapid delivery options may also carry a premium.

Distribution Boxes Explosion-proof distribution boxes, which house multiple circuits or power systems, are generally more expensive than standard junction boxes, with prices starting around \$500 and reaching \$3,000–\$5,000 for large, certified, stainless steel models suitable for Zone 1 or Zone 2 installations.

Purchasing Options

Standard models: Available with short lead times, often in stock for immediate shipping. Custom enclosures: Tailored dimensions, materials, and features, typically with longer lead times and higher costs. Online marketplaces: Platforms like Amazon offer smaller explosion-proof junction boxes, usually in the lower price range for basic applications.

In summary, prices depend heavily on size, material, certification, and customization, ranging from \$100 for small junction boxes to over \$5,000 for large, high-spec distribution boxes in hazardous environments.

Article Content

Explosion Proof Device Box

The Larson Electronics EPD-DB-1G-D is an explosion proof device box that provides explosion proof protection for devices used in hazardous locations.

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