

Customized Explosion-proof Distribution Boxes for Industrial Use



Article Overview

Explosion-proof distribution boxes must be customized based on hazardous area classification, material selection, certification standards, and application-specific design to ensure safety and compliance.

Key Considerations for Customization

1. **Certification and Standards** Explosion-proof distribution boxes must comply with recognized international standards to ensure safe operation in hazardous environments. Common certifications include ATEX, IECEx, and NEMA, which validate suitability for Class I, Division 1, Class II, Division 1, and Zone 1 or Zone 2 areas . Depending on the risk, enclosures may require Ex d (flameproof) or Ex i (intrinsically safe) designs to prevent ignition of surrounding gases or dust .

2. **Material Selection** Materials must provide mechanical strength, corrosion resistance, and durability under harsh conditions. Typical options include stainless steel, aluminum, mild steel, or glass-reinforced plastics (GRP) . Copper-free aluminum is often used for offshore or marine environments due to its corrosion resistance . Material choice affects longevity, maintenance frequency, and resistance to environmental stressors.

3. **Size and Configuration Customization** Customization includes adjusting dimensions, wall thickness, and internal layout to accommodate specific electrical components, wiring, and cable entries . Modular designs allow for tailored configurations, including different numbers and types of terminals, cable glands, and optional viewing windows made from thermo-resistant tempered glass .

4. **Protection Ratings** Enclosures should meet appropriate IP (Ingress Protection) and IK (impact) ratings, such as IP66/IP67, to ens...

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Consequence: The installation elevation of the lighting explosion-proof distribution box (panel) does not

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