

How to identify the model number of an explosion-proof distribution box



AI Overview

The model number of an explosion-proof distribution box encodes its protection type, applicable hazardous zones, gas or dust group, temperature class, and equipment protection level.

Key Components of the Model Number

Equipment Group: For mining environments (methane gas) II: For other explosive atmospheres outside mines, such as industrial gas or dust areas

Category / Zone

- Zone 0: Very high risk, continuous or long-term explosive atmosphere
- Zone 1: High risk, occasional explosive atmosphere
- Zone 2: Normal risk, rare or brief exposure

Atmosphere Type

- G: Gas, vapor, or mist
- D: Combustible dust

Some devices may have dual markings like G/D for mixed hazards

Protection Method

- Ex d: Flameproof enclosure, containing internal explosions
- Ex e: Increased safety, preventing sparks or overheating
- Ex i: Intrinsically safe, limiting energy to prevent ignition
- Ex t: Dust protection, preventing ignition of combustible dust

Gas/Dust Group IIA, IIB, IIC: Specifies the type of gas the box can safely handle, with IIC being suitable for the most volatile gases like hydrogen

Temperature Class T1–T6: Maximum surface temperature of the enclosure; lower numbers indicate higher allowable temperatures before ignition risk

Equipment Protection Level (EPL) Gb / Gc: Gas protection levels Db / Dc: Dust protection levels

Indicates the degree of protection and suitability for specific zones

Example

A model number like II 2G Ex db IIB T4 Gb can be interpreted as:

- II: Industrial explosive atmosphere
- 2G: Category 2, suitable for Zone 1 gas areas
- Ex db: Flameproof enclosure
- IIB: Gas group, suitable for ethylene and similar gases
- T4: Maximum surface temperature 135°C
- Gb: Equipment protection level for gas, suitable for Zone 1

Additional Notes

Some manufacturers, like HRMD92 series, include extra identifiers for enclosure material (stainless steel, aluminum), hinge type, and optional features...

Article Content

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Ex Equipment

Within the EU, the ATEX directive, which determines the safe operation of plants and systems in potentially explosive atmospheres, is effective for this purpose.

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EJB-UL enclosure

Explosion proof and flameproof enclosures BARTEC B or EJB-UL series are designed to be installed in industrial plants, where potential hazardous atmos

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Crouse-Hinds series GUE and GUB Explosionproof Junction Boxes

For this example: FCFC complete catalog number is made up of three parts: Part 1 – box number; Part 2 – arrangement number; Part 3 – symbols for conduit openings. For this example: GUB06-108-FCFC.

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Terminal and Junction Boxes (Ex d) | Explosion Protection

Designed to withstand extreme temperatures, EJBX terminal boxes and junction boxes support operation in environments as cold as -60 °C. Customers can have each unit tailored to their

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Model And Specification Of Explosion-Proof Distribution Box

Explosion-proof lighting distribution boxes and cabinets come in a variety of models. They vary in terms of materials, including metal and flame-retardant plastic; installation methods, such as

How to Wire an Explosion-Proof Distribution Box and

Explosion-proof electrical equipment, such as explosion-proof distribution boxes, is specifically designed for hazardous environments where flammable gases,

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Distribution Boxes HRMD92 Series Explosion-proof Distribution Panels

Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the panels, and greatly prolong the service life of box.

HRMD92 Explosion proof Distribution Box (Ex d IIB+H2)

Equipped with a specialised hinge structure which can prevent damage to the flameproof joints when opening and closing the box; greatly prolongs the service life of the box.

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