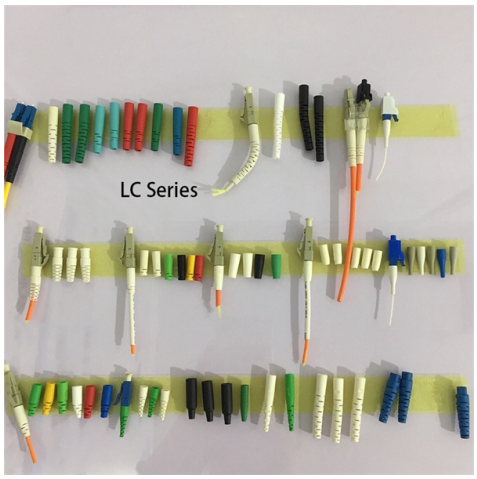
Explosion-proof distribution box level 2



Overview

Choose our explosion-proof solutions, choose safety. Durable Hexlon Explosion Proof Distribution Boxes and Electrical Enclosures, IECEx and ATEX certified for Zone 1 and Zone 2.

Key Takeaways

A Level 2 Explosion-proof Distribution Box is a modular, flameproof electrical enclosure designed for hazardous areas, providing high safety, durability, and compliance with Zone 1 and Zone 2 explosion-proof standards.

Key Features

Construction and Materials: These boxes are typically made from 304 or 316L stainless steel or Q235 steel, offering robust protection against corrosion and mechanical damage. Some models use aluminum alloy with electrostatic spraying for lightweight applications. The enclosures feature specialized hinge structures to prevent damage to flameproof joints during opening and closing, extending service life.

Explosion-proof Standards: Level 2 boxes are designed for Zone 1 and Zone 2 hazardous areas, complying with Ex db IIC T6…T4, Ex tb IIIC T80°C…T130°C, IECEx, ATEX, and GB3836 standards. They provide protection against ignition from internal sparks or external flames. Protection and Safety: These boxes offer IP54 or higher protection, ensuring resistance to dust and water ingress.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

They can include air circuit breakers, leakage protection devices, overload and short-circuit protection, and optional alarm systems. Temperature control can be managed via digital or BJW thermostats for applications like heat trace cables. Modularity and Installation: Many Level 2 boxes are modular, allowing combination and flexible installation to save space and meet various distribution system requirements.

They can be mounted vertically or hanging, with power cable entry typically at the bottom. Internal wiring is often pre-installed, requiring only external connections. Applications: These distribution boxes are widely used in petrochemical plants, oil and gas facilities, food processing, medical machinery, aerospace, and military ships.

They are suitable for control panels, motor starters, terminal boxes, and local control stations in hazardous environments. Additional Features: Some models allow custom configurations, including multiple control elements, voltmeters, ammeters, LED indicators, and grounding devices. They are designed to operate reliably in extreme temperatures and outdoor conditions.

Summary

A Level 2 Explosion-proof Distribution Box ensures safe and reliable power distribution in hazardous areas, combining robust materials, certified explosion-proof standards, modular design, and advanced protection features. It is ideal for industrial applications where safety, durability, and compliance with international standards are critical.

Article Content

Explosion Proof Distribution Box & Electrical Enclosures

Choose our explosion-proof solutions, choose safety. Durable Hexlon Explosion Proof Distribution Boxes and Electrical Enclosures, IECEx and ATEX certified for Zone 1 and Zone 2.

Ex Equipment

ROSE Aluminium, Polyester and Stainless-Steel Ex Enclosures and Control Stations assure reliable protection for electrical distribution systems in explosion

Explosion-Proof Distribution Box

The distribution box (explosion-proof) is an aluminum alloy housing, electrostatic spraying, in accordance with the explosion-proof provisions of GB3836.2-2000, for the distribution of electric

Ex Local Control Stations & Distribution Boxes

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Atex control stations, explosion protected control units and distribution boxes made stainless steel maritime grade AISI 316L or AISI 304L. Atex Delvalle provides a

Explosion Proof Distribution Box | ATEX Transformer Supplier

We supply certified explosion proof distribution box & Atex Transformer -Appleton, ATKON, CZ, CEAG, brands for safe and reliable industrial use.

Control Panels & Distribution Boards

Thorne & Derrick can custom design flameproof panels for protection and control of ATEX lighting, trace heating systems, and power distribution – electrical control

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

Available with a wide range of built in components. Enclosure: 316 stainless steel. Equipped with a specialised hinge structure which can prevent damage to the flameproof joints when opening and

Explosion-proof Electric Control Box MAMX—02/03 Series

Explosion-proof Power Distribution Panel MAMX-02 and MAMX-03 * In-built circuit breaker, AC Contactor, Thermorelay, PLC, Transducer, Soft starter and other

Explosion-Proof Distribution Boxes & Panels

The explosion-proof distribution box safely delivers power in hazardous zones (oil, gas, chemical plants) with rugged, spark-resistant casing—ATEX/IECEx, IP66

AGP17 ATEX and IECEx Explosion-protected

AGP17 ATEX and IECEx explosion-protected distribution boards are designed for MCB distribution of lighting circuits, heating circuits and socket distribution in

Latest news & breaking headlines | The Times and The Sunday Times

The latest breaking UK, US, world, business and sport news from The Times and The Sunday Times. Go beyond today''s headlines with in-depth analysis and comment.

Explosion protective components & systems | Products | ABB

Explosion protective components & systems From its global facilities ABB manufactures a wide range of ATEX, IECEx, UL, CSA approved electrical products for hazardous area applications.

Hazardous Location Electrical Boxes

Hazardous location electrical boxes protect electrical wiring and components in hazardous atmospheres where dust, dirt, and corrosive moisture may be present.

Control Panels & Distribution Boards

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Control Panels | atex & ieceX Explosion Proof & Hazardous Area Zone 1 & Zone 2
Thorne & Derrick International, based in the UK, are the leading designers and

Explosion proof Power Distribution Panel Box

Power Distribution panel box - Hazardous locations for explosive gas mixtures: Zone 1 and Zone 2. Explosive gas mixtures: Class IIA, IIB, and IIC.

Ex d Enclosures | Flameproof Enclosures Ex d | Zone 2 Hazardous

Ex d Flameproof Enclosures Thorne & Derrick can ensure the safe specification and supply of explosion-proof Ex d enclosures used to house electrical apparatus for use in explosive

Distribution Boxes

BXJ93 Fibre Optic Splice Box Explosion-Proof Fibre Optic Termination Solution for Hazardous Locations Engineered for safety, reliability, and high-performance

Hazardous Location Electrical Boxes | McMaster-Carr

Choose from our selection of hazardous location electrical boxes, including outlet boxes and covers, weatherproof outlet boxes and covers, and more. Same and Next Day Delivery.

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved