# Samoa Explosion-proof Distribution Box Solution

## Overview

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## Key Takeaways

Explosion-proof distribution boxes in Samoa are designed for hazardous zones with customizable enclosures, cable entries, and internal components to meet industrial safety standards.Enclosure and Safety Standards

Explosion-proof distribution boxes, such as the HRMD91 and HRMD97 series, are suitable for Zones 1, 2, 21, and 22, and comply with Class I, Division 1, Groups B, C, D requirements . They feature flameproof enclosures (Ex d IIB+H2 or Ex db/eb IIC) made from copper-free aluminum alloy with powder-coated surfaces, ensuring durability and resistance to hazardous conditions . The boxes are equipped with specialized hinge structures to prevent damage to flameproof joints during opening and closing, extending service life .

Internal Components and Configuration

These distribution boxes can house a wide range of components, including:

• PLCs, fuses, soft starters, frequency converters, terminals, bus bars, resistors

• Control devices: light-operated switches, time controllers, optical fiber control boxes, magnet valves, analytical instruments

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• Monitoring instruments: ammeters, voltmeters, current and voltage monitors, temperature and humidity controllers

• Motor and lighting control: motor protection switches, dual power transfer switches, lighting controllers, emergency devices for HID, fluorescent, and LED sources

• Power and backup systems: UPS, batteries, integrated motor protectors, solid-state relays, diode modules, industrial PCs The boxes support on-off operation, remote or local control of motors, and monitoring of circuit status when equipped with meters .

Cable Entry and Installation

• Cable entry direction and size must be specified for each installation .

• Cable glands are optional, with DQM-II (Ex d) or DQM-III (Ex d) recommended for safe connections .

• Standard installation height for lighting distribution boxes in Samoa is 1.5 meters from the ground .

• The boxes can be combined and installed freely to save space and meet system requirements .

Customization and Compliance

• Terminal arrangements and internal layouts can be customized according to user requirements while conforming to certification limits .

• The enclosures are IP66 rated, ensuring protection against dust and water ingress .

• They are IECEx and ATEX certified, providing international compliance for hazardous environments .

Summary

Samoa's explosion-proof distribution boxes are highly configurable, durable, and compliant with international safety standards, suitable for industrial applications in hazardous zones. They allow for customized internal components, flexible installation, and reliable monitoring and control, ensuring safe and efficient power distribution in explosive-prone environments .

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The enclosures feature specialized hinge structures to protect flameproof joints and extend service life .Certifications and Standards:

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