

Global Dust Explosion Protection System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Dust Explosion Protection System market size is expected to reach \$ 355 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

A Battery Thermal Runaway Detector, also known as a lithium battery thermal runaway monitoring sensor, is a specialized sensor device used to detect and prevent safety problems caused by thermal runaway during the use of battery packs. Thermal runaway is an uncontrollable self-heating state of a battery cell that poses risks of fire, explosion, or system failure. These detectors monitor abnormal temperature increases, gas emissions (such as carbon monoxide, hydrogen, and electrolyte vapor), pressure changes, and smoke?early warning signs that indicate the risk of thermal runaway in battery systems. The global average selling price for battery thermal runaway detectors is approximately US\$46.72 per unit. The average sales volume in the base year is estimated at 2,207k units. The industry average gross margin is approximately 30%?55%. The upstream segment includes manufacturers of MEMS sensors, gas sensor chips, pressure sensor chips, and other electronic components. The midstream segment comprises sensor module manufacturers and system integrators. The downstream segment encompasses electric vehicle manufacturers, energy storage system providers, battery management system (BMS) suppliers, and consumer electronics companies.

The Battery Thermal Runaway Detector market is undergoing rapid transformation driven by the explosive growth of electric vehicles and energy storage systems, the increasingly prominent safety risks of lithium-ion battery thermal runaway fires and explosions, the continued tightening of global battery safety standards and regulations, the demand for intelligent upgrades to battery management systems, and the

heightened safety concerns of consumers and operators. As lithium-ion batteries' energy density continues to increase, their thermal stability challenges intensify, leading to a sharp increase in demand for specialized sensors capable of early and accurate detection of thermal runaway precursors such as temperature anomalies, gas release, and smoke.

The industry is witnessing a fundamental shift from single-parameter detection to multi-parameter integrated sensing solutions. Gas sensors, pressure sensors, and multifunctional sensors are increasingly being combined into integrated monitoring modules that provide comprehensive early warning capabilities. The integration of artificial intelligence and machine learning algorithms with sensor data is enhancing detection accuracy and reducing false alarms. Wireless connectivity and real-time data transmission to cloud-based monitoring platforms are becoming standard features, enabling remote diagnostics and predictive maintenance.

This report studies the global Dust Explosion Protection System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dust Explosion Protection System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Dust Explosion Protection System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Dust Explosion Protection System total production and demand, 2021-2032, (K Units)

Global Dust Explosion Protection System total production value, 2021-2032, (USD Million)

Global Dust Explosion Protection System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Dust Explosion Protection System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Dust Explosion Protection System domestic production, consumption, key domestic manufacturers and share

Global Dust Explosion Protection System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Dust Explosion Protection System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Dust Explosion Protection System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dust Explosion Protection System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell International Inc., Amphenol Advanced Sensors, Sensata Technologies, Infineon Technologies, Valeo, ScioSense, Metis Engineering, MSR-Electronic GmbH, Li-ion Tamer (Nexceris), Hanwei Electronics Group Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Dust Explosion Protection System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Dust Explosion Protection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dust Explosion Protection System Market, Segmentation by Type:

Gas Sensors

Pressure Sensors

Multifunctional Sensors

Others

Global Dust Explosion Protection System Market, Segmentation by Detection Technology:

Electrochemical Gas Detection

Semiconductor Gas Detection

MEMS-Based Detection

Optical/IR Detection

Global Dust Explosion Protection System Market, Segmentation by Communication Interface:

CAN Bus

LIN Bus

I²C / SPI

Wireless (Bluetooth, Wi-Fi)

Global Dust Explosion Protection System Market, Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Others

Companies Profiled:

Honeywell International Inc.

Amphenol Advanced Sensors

Sensata Technologies

Infineon Technologies

Valeo

ScioSense

Metis Engineering

MSR-Electronic GmbH

Li-ion Tamer (Nexceris)

Hanwei Electronics Group Corporation

Cubic Sensor and Instrument Co., Ltd.

Sensirion AG

Zhengzhou Weisheng Electronic Technology

Yangzhou Ruikong Automotive Electronics

Jintianhong Technology

Henan Fosen Electronics Technology

Dong Guan Churod Electronics

Wuhan Yunshen Technology

Suzhou Xinmagxin Electronic Technology

Fosensor

DrKsir

Key Questions Answered:

1. How big is the global Dust Explosion Protection System market?
2. What is the demand of the global Dust Explosion Protection System market?
3. What is the year over year growth of the global Dust Explosion Protection System market?
4. What is the production and production value of the global Dust Explosion Protection System market?
5. Who are the key producers in the global Dust Explosion Protection System market?
6. What are the growth factors driving the market demand?

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