

Global Dust Explosion Protection System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Dust Explosion Protection System market size was valued at US\$ 106 million in 2025 and is forecast to a readjusted size of US\$ 355 million by 2032 with a CAGR of 18.2% during review period.

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 is a detailed and comprehensive analysis for global Dust Explosion Protection System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Dust Explosion Protection System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Dust Explosion Protection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Dust Explosion Protection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Dust Explosion Protection System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Dust Explosion Protection System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Dust Explosion Protection System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Dust Explosion Protection System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Gas Sensors

Pressure Sensors

Multifunctional Sensors

Others

Market segment by Detection Technology

Electrochemical Gas Detection

Semiconductor Gas Detection

MEMS-Based Detection

Optical/IR Detection

Market segment by Communication Interface

CAN Bus

LIN Bus

I²C / SPI

Wireless (Bluetooth, Wi-Fi)

Market segment by Application

Electric Vehicles

Energy Storage Systems

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Dust Explosion Protection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dust Explosion Protection System, with price, sales quantity, revenue, and global market share of Dust Explosion Protection System from 2021 to 2026.

Chapter 3, the Dust Explosion Protection System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dust Explosion Protection System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Dust Explosion Protection System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Dust Explosion Protection System.

Chapter 14 and 15, to describe Dust Explosion Protection System sales channel, distributors, customers, research findings and conclusion.

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