

Global Photoionization Detector (PID) Market Growth 2026-2032

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Abstracts

The global Photoionization Detector (PID) market size is predicted to grow from US\$ 411 million in 2025 to US\$ 660 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

A photoionization detector (PID) is a gas sensing device used to detect the concentration of volatile organic compounds (VOCs) and trace gases in the air. Its working principle is to use ultraviolet light to ionize gas molecules, generating ions that form a current signal. This signal is proportional to the gas concentration, thus achieving real-time, highly sensitive detection of pollutants. PIDs are widely used in environmental monitoring, industrial hygiene, petrochemical safety, hazardous gas detection, and emergency rescue, characterized by fast response, high sensitivity, and the ability to detect low concentrations of VOCs (ppm or even ppb levels). The upstream of the industry chain includes suppliers of ultraviolet lamps, electrode materials, sensor chips, electronic circuits, and sampling systems; the midstream consists of equipment manufacturers responsible for integrating detection modules, signal processing systems, calibration systems, and producing portable or fixed detection equipment; downstream applications include environmental monitoring agencies, industrial safety systems, the oil and gas industry, chemical enterprises, fire and emergency departments, and occupational health monitoring. In 2025, the global production of photoionization detectors (PIDs) was approximately 336,000 units, with an average market price of approximately US\$1,250 per unit. The gross profit margin of major companies in the industry is approximately 35%-52%. Global production capacity is projected to be approximately 448,000 units in 2025.

United States market for Photoionization Detector (PID) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Photoionization Detector (PID) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Photoionization Detector (PID) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Photoionization Detector (PID) players cover Honeywell, Ion Science, Dräger, MSA Safety, RKI Instruments, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Photoionization Detector (PID) Industry Forecast" looks at past sales and reviews total world Photoionization Detector (PID) sales in 2025, providing a comprehensive analysis by region and market sector of projected Photoionization Detector (PID) sales for 2026 through 2032. With Photoionization Detector (PID) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photoionization Detector (PID) industry.

This Insight Report provides a comprehensive analysis of the global Photoionization Detector (PID) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Photoionization Detector (PID) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photoionization Detector (PID) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photoionization Detector (PID) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photoionization Detector (PID).

This report presents a comprehensive overview, market shares, and growth opportunities of Photoionization Detector (PID) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

10.6 eV PID Sensor

11.7 eV PID Sensor

Segmentation by Detection Level:

ppb-Level PID Detector

ppm-Level PID Detector

Segmentation by Application:

Environmental Air Quality Monitoring

Indoor Air Quality Assessment

Landfill Gas Monitoring

Emergency Response Detection

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell

Ion Science

Dräger

MSA Safety

RKI Instruments

Crowcon

Industrial Scientific

Shanxi Tengxing Sensing Technology Co., Ltd.

Nuoan

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photoionization Detector (PID) market?

What factors are driving Photoionization Detector (PID) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Photoionization Detector (PID) market opportunities vary by end market size?

How does Photoionization Detector (PID) break out by Type, by Application?

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