

Global Arc Detector Market Growth 2025-2031

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Abstracts

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The global Arc Detector market size is predicted to grow from US\$ 125 million in 2025 to US\$ 180 million in 2031; it is expected to grow at a CAGR of 6.3% from 2025 to 2031.

Arc detectors are devices used to monitor arcs in RF plasma systems. They are mainly used in the semiconductor industry and other industries that require plasma-assisted processes. Arcs generated during plasma processing may cause damage to the target and chamber, resulting in substrate damage and particle generation. Arc detectors can quickly detect arcs and, combined with supporting software, monitor and analyze plasma micro-arc events in real time to avoid major losses, such as the scrapping of a whole batch of wafers.

The global arc detector market size is expected to grow steadily between 2023 and 2030.

From a regional perspective, the Chinese market is still one of the important consumer markets for arc detectors, with a market size of 27.38 million US dollars in 2023, accounting for about 22.51% of the world, and is expected to reach 48.81 million US dollars in 2030, and the global share will reach 26.86%, with strong development momentum. In addition, Europe and North America, the main production regions of arc detectors, accounted for 23.43% and 25.88% of the market share in 2023, respectively, and are expected to decline slightly by 2030, to 21.77% and 22.28% respectively.

From the perspective of product type and technology, RF monitoring is the mainstream direction of future development, with sales of US\$52.80 million in 2023, accounting for 43.42% of the market share. It is expected that sales will reach US\$81.43 million by

2030, with a compound annual growth rate (CAGR) of 6.52% (2024-2030). Photoelectric monitoring and voltage and current monitoring accounted for 32.66% and 23.92% of the market share in 2023, respectively, and the market share is expected to change little in the future.

From the perspective of product market application, the semiconductor industry is still the main application industry of arc detectors, with sales of US\$79.30 million in 2023, accounting for 65.21% of the market share. It is expected that its market size and share will increase to US\$120.02 million and 66.05% by 2030, respectively.

Currently, the world's major manufacturers include Impedans, Inficon, AFT MICROWAVE, MKS Instruments and Profen. In 2023, the top five manufacturers accounted for 74.04% of the market share. It is expected that industry competition will become more intense in the next few years, which will promote the further development of the arc detector industry.

LP Information, Inc. (LPI) ' newest research report, the "Arc Detector Industry Forecast" looks at past sales and reviews total world Arc Detector sales in 2024, providing a comprehensive analysis by region and market sector of projected Arc Detector sales for 2025 through 2031. With Arc Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Arc Detector industry.

This Insight Report provides a comprehensive analysis of the global Arc Detector 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 Arc Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Arc Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Arc Detector 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 Arc Detector.

This report presents a comprehensive overview, market shares, and growth

opportunities of Arc Detector market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

RF Monitoring Type

Voltage and Current Monitoring Type

Photoelectric Monitoring Type

Segmentation by Application:

Semiconductor

Solar Battery

Medical Instruments

Optics

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.

Impedans

Inficon

AFT MICROWAVE

MKS Instruments

Profen

Narda-ATM

Unique Broadband Systems

Thermex-Thermatron

MicroStep-MIS

Key Questions Addressed in this Report

What is the 10-year outlook for the global Arc Detector market?

What factors are driving Arc Detector market growth, globally and by region?

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

How do Arc Detector market opportunities vary by end market size?

How does Arc Detector break out by Type, by Application?

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