

Global Arc Detector Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Arc Detector market size was valued at US\$ 132 million in 2024 and is forecast to a readjusted size of USD 195 million by 2031 with a CAGR of 5.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Arc Detector 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 Arc Detector market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Arc Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Arc Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Arc Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Arc Detector
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Arc Detector 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 Impedans, Inficon, AFT MICROWAVE, MKS Instruments, Profen, Narda-ATM, Unique Broadband Systems, Thermex-Thermatron, MicroStep-MIS, etc.

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

Market Segmentation

Arc Detector market is split by Type and by Application. For the period 2020-2031, 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

RF Monitoring Type

Voltage and Current Monitoring Type

Photoelectric Monitoring Type

Market segment by Application

Semiconductor

Solar Battery

Medical Instruments

Optics

Others

Major players covered

Impedans

Inficon

AFT MICROWAVE

MKS Instruments

Profen

Narda-ATM

Unique Broadband Systems

Thermex-Thermatron

MicroStep-MIS

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 Arc Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Arc Detector, with price, sales quantity, revenue, and global market share of Arc Detector from 2020 to 2025.

Chapter 3, the Arc Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Arc Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Arc Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Arc Detector.

Chapter 14 and 15, to describe Arc Detector sales channel, distributors, customers, research findings and conclusion.

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