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Global Single QCM Sensor 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 Single QCM Sensor market size was valued at US$ 7.82 million in 2025 and is forecast to a readjusted size of US$ 10.67 million by 2032 with a CAGR of 4.5% during review period.

In 2025, global Single QCM Sensor production reached approximately 3,500 units with an average price of USD $2,200 per unit. Single QCM Sensor is a chamber-side sensor-head assembly used in vacuum thin-film deposition systems to hold one quartz monitor crystal and transmit the oscillation signal needed for deposition-rate and film-thickness control. Its market position is between disposable monitor crystals and full deposition control systems. Typical products include front-load, side-drawer, right-angle, water-cooled, bakeable, and high-temperature single-crystal heads, often supplied with optional shutter, mounting, or feedthrough compatibility. The product is not a crystal consumable, oscillator, controller, cable, feedthrough-only component, multi-crystal sensor, or complete QCM analytical instrument. Demand is driven by coating tool installation, replacement of worn or contaminated sensor heads, and process upgrades where stable crystal temperature and reliable signal transfer improve coating repeatability. Its independent research value lies in isolating a small but critical hardware niche within deposition monitoring.

Single QCM Sensor should be treated as a narrow hardware component within vacuum thin-film deposition monitoring, not as a broad QCM instrument or quartz crystal consumable market. The defining feature is a single-crystal sensor head installed inside the deposition chamber, where it holds one monitor crystal and transfers the oscillation signal to the rest of the monitoring chain. This positioning separates it from crystals, oscillators, controllers, feedthrough-only products, cables, multi-crystal heads, and full

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coating machines. In a market report, the product should therefore be framed as the chamber-side terminal of the deposition monitoring system. 2) Demand expectations are shaped by installed vacuum deposition equipment, not only by new equipment shipments. Optical coaters, semiconductor thin-film tools, display deposition systems, solar thin-film lines, and laboratory evaporators all require stable rate and thickness monitoring, but the single-head segment is most relevant where process length, budget, chamber geometry, or simplicity favors one crystal position over a multi-crystal rotary sensor. Replacement demand also matters because sensor heads face coating contamination, cooling tube wear, contact degradation, and mechanical damage during maintenance. 3) The current supplier base is small and technically specialized. INFICON provides major reference designs such as Easy Rate Single Sensor, Front Load Single Sensor, Cool Drawer Single Sensor, UHV Bakeable Sensor, and ALD-related sensor variants. Fil-Tech states that it manufactures single and dual sensor heads, feedthroughs, sputter heads, cables, oscillators, and custom assemblies. McVac emphasizes water-cooled, non-water-cooled, compact, high-temperature, right-angle, single, and dual shuttered sensors. Telemark supplies single and dual QCM sensor heads, including single parallel and single right angle designs. ULVAC, Colnatec, MDC, and Chinese suppliers broaden the compatible and regional supply base, but the pool remains narrower than for crystals or controllers. 4) Growth factors should be analyzed through tool utilization, sensor replacement, and process-performance requirements. Optical and dielectric coatings need stable signal transfer because film stacks can be sensitive to rate drift. Semiconductor and display users value thermal stability, contamination control, and feedthrough compatibility. Research laboratories prefer simple single-sensor layouts for evaporation systems and materials screening. However, growth is constrained by the long service life of sensor heads, the option to use multi-crystal sensors in longer processes, and the fact that many new deposition systems bundle sensor heads with complete control packages. 5) The product's market position is small but defensible. Buyers usually care about chamber geometry, crystal access, cooling, bakeout tolerance, cable compatibility, shutter options, and ease of maintenance. Segmentation by crystal access structure, thermal management structure, and maximum bakeout temperature is more useful than a generic product label because it reflects how users specify the component during coating-system design, retrofit, and replacement procurement.

This report is a detailed and comprehensive analysis for global Single QCM Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Crystal Access Structure 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.

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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 Single QCM Sensor market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Single QCM Sensor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Single QCM Sensor market size and forecasts, by Crystal Access Structure and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Single QCM Sensor market shares of main players, shipments in revenue ($ Million), sales quantity (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 Single QCM Sensor

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 Single QCM Sensor 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 INFICON Holding AG, Telemark, Fil-Tech, Inc., McVac Manufacturing Co. Inc., ULVAC, Inc., Colnatec LLC, MDC Vacuum Products, LLC, Jiaxing Jingkong Electronics Co., Ltd., etc.

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

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Market Segmentation

Single QCM Sensor market is split by Crystal Access Structure and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Crystal Access Structure, 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 Crystal Access Structure

Front Load Access

Side Drawer Access

Standard Holder Access

Right Angle Access

Others

Market segment by Thermal Management Structure

Water Cooled Body

Non Water Cooled Body

High Temperature Body

Bakeable Body

Others

Market segment by Maximum Bakeout Temperature

Below 150 ?C

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150 ?C to 250 ?C

250 ?C to 400 ?C

Above 400 ?C

Market segment by Application

Optical Coating

Semiconductor Thin Film Deposition

Display Thin Film Deposition

Solar Thin Film Deposition

Others

Major players covered

INFICON Holding AG

Telemark

Fil-Tech, Inc.

McVac Manufacturing Co. Inc.

ULVAC, Inc.

Colnatec LLC

MDC Vacuum Products, LLC

Jiaxing Jingkong Electronics Co., Ltd.

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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 Single QCM Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single QCM Sensor, with price, sales quantity, revenue, and global market share of Single QCM Sensor from 2021 to 2026.

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

Chapter 4, the Single QCM Sensor 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 Crystal Access Structure and by Application, with sales market share and growth rate by Crystal Access Structure, 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 Single QCM Sensor market forecast, by regions, by Crystal Access Structure, and by Application, with sales and revenue, from 2027 to 2032.

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

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analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single QCM Sensor.

Chapter 14 and 15, to describe Single QCM Sensor sales channel, distributors, customers, research findings and conclusion.

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