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Global Single QCM Sensor Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G759ECD19982EN.html
Date: August 2026
Pages: 100
Price: US$ 4,480.00 (Single User License)
ID: G759ECD19982EN

Abstracts

The global Single QCM Sensor market size is expected to reach $ 10.67 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

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 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

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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 studies the global Single QCM Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single QCM Sensor and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single QCM Sensor that contribute

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to its increasing demand across many markets.

Highlights and key features of the study
Global Single QCM Sensor total production and demand, 2021-2032, (Units)
Global Single QCM Sensor total production value, 2021-2032, (USD Million)
Global Single QCM Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Single QCM Sensor consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Single QCM Sensor domestic production, consumption, key domestic manufacturers and share
Global Single QCM Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Single QCM Sensor production by Crystal Access Structure, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Single QCM Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Single QCM Sensor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single QCM Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Crystal Access Structure, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

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Global Single QCM Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single QCM Sensor Market, Segmentation by Crystal Access Structure:

Front Load Access

Side Drawer Access

Standard Holder Access

Right Angle Access

Others

Global Single QCM Sensor Market, Segmentation by Thermal Management Structure:

Water Cooled Body

Non Water Cooled Body

High Temperature Body

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Bakeable Body

Others

Global Single QCM Sensor Market, Segmentation by Maximum Bakeout Temperature:

Below 150 ?C

150 ?C to 250 ?C

250 ?C to 400 ?C

Above 400 ?C

Global Single QCM Sensor Market, Segmentation by Application:

Optical Coating

Semiconductor Thin Film Deposition

Display Thin Film Deposition

Solar Thin Film Deposition

Others

Companies Profiled:

INFICON Holding AG

Telemark

Fil-Tech, Inc.

McVac Manufacturing Co. Inc.

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ULVAC, Inc.

Colnatec LLC

MDC Vacuum Products, LLC

Jiaxing Jingkong Electronics Co., Ltd.

Key Questions Answered:
1. How big is the global Single QCM Sensor market?
2. What is the demand of the global Single QCM Sensor market?
3. What is the year over year growth of the global Single QCM Sensor market?
4. What is the production and production value of the global Single QCM Sensor market?
5. Who are the key producers in the global Single QCM Sensor market?
6. What are the growth factors driving the market demand?

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