

# Global Zero-field Atomic Magnetometer 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 Zero-field Atomic Magnetometer market size was valued at US\$ 218 million in 2024 and is forecast to a readjusted size of USD 304 million by 2031 with a CAGR of 4.8% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The zero-field atomic magnetometer is an instrument that measures the external magnetic field with high sensitivity based on atomic spin in a zero magnetic field (or extremely low magnetic field) environment. Its core principle is to use the spin precession characteristics of alkali metal atoms (such as rubidium and cesium) under specific conditions to detect weak magnetic field signals through the interaction between light and atoms. Traditional magnetometers (such as superconducting quantum interferometers) require strong magnetic field bias, while zero-field atomic magnetometers work under conditions close to zero magnetic field through optical pumping and laser detection technology. This feature enables it to avoid the interference of strong magnetic fields on the measurement environment, and is suitable for applications such as biomagnetic imaging and magnetoencephalography (MEG) that require demanding magnetic field environments.

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

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

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

Global Zero-field Atomic Magnetometer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Zero-field Atomic Magnetometer
- 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 Zero-field Atomic Magnetometer 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 FieldLine, iXblue, QuSpin, Twinleaf, CIQTEK, Zurich Instruments, Trivisan NanoTechnology, AlphaLab, Bartington Instruments, Guoqi (Deqing) Sensing Technology, etc.

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

### **Market Segmentation**

Zero-field Atomic Magnetometer 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**

Optically Pumped Magnetometer

Spin-free Exchange Relaxation Magnetometer

Nonlinear Magneto-optical Rotation Magnetometer

RF Atomic Magnetometer

### **Market segment by Application**

Biomedical

Geological Exploration

Industrial Detection

Aerospace

Others

### **Major players covered**

FieldLine

iXblue

QuSpin

Twinleaf

CIQTEK

Zurich Instruments

Trivisan NanoTechnology

AlphaLab

Bartington Instruments

Guoqi (Deqing) Sensing Technology

Guoyi Quantum

Beijing Weici Technology

Shanghai Haoliang Optoelectronics

Spectrum Technology

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 Zero-field Atomic Magnetometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zero-field Atomic Magnetometer, with price, sales quantity, revenue, and global market share of Zero-field Atomic Magnetometer from 2020 to 2025.

Chapter 3, the Zero-field Atomic Magnetometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Zero-field Atomic Magnetometer 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 Zero-field Atomic Magnetometer 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 Zero-field Atomic Magnetometer.

Chapter 14 and 15, to describe Zero-field Atomic Magnetometer sales channel, distributors, customers, research findings and conclusion.

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