

# Global Smart Condition Monitoring Sensors Market Growth 2026-2032

<https://marketpublishers.com/r/SC90D62418EFEN.html>

Date: January 2026

Pages: 103

Price: US\$ 3,660.00 (Single User License)

ID: SC90D62418EFEN

## Abstracts

The global Smart Condition Monitoring Sensors market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Smart condition monitoring sensors are intelligent sensing devices that capture vibration, temperature, acoustic signals, current, torque and other machine-health parameters for predictive maintenance, industrial IoT analytics and automated diagnostics. In 2024, the global average price is approximately US\$92 per unit, with total shipments of around 28.7 million units. Gross margins typically range from 32%–48%, driven by sensor accuracy, wireless stability, edge-processing capability, battery life, and AI analytics integration. The supply chain includes upstream MEMS sensors, microcontrollers, wireless chipsets, batteries and signal-conditioning ICs; midstream manufacturers provide sensor assembly, calibration, firmware development and cloud connectivity; downstream users include factory automation, rotating machinery, HVAC systems, industrial motors, energy equipment, pumps, compressors and predictive maintenance platforms.

United States market for Smart Condition Monitoring Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Smart Condition Monitoring Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Smart Condition Monitoring Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Smart Condition Monitoring Sensors players cover SKF Enlight / SKF Condition Monitoring, Siemens Condition Monitoring Sensors, Honeywell Industrial Sensing, ABB Ability Smart Sensors, Schneider Electric EcoStruxure Sensing, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Smart Condition Monitoring Sensors Industry Forecast” looks at past sales and reviews total world Smart Condition Monitoring Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Smart Condition Monitoring Sensors sales for 2026 through 2032. With Smart Condition Monitoring Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Smart Condition Monitoring Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Smart Condition Monitoring Sensors 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 Smart Condition Monitoring Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Smart Condition Monitoring Sensors market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Vibration Sensors

Temperature Sensors

Acoustic / Ultrasonic

Current / Torque Sensors

**Segmentation by Connectivity:**

Wired Sensors

Wireless Sensors (BLE/LoRa/Wi-Fi)

Hybrid Sensors

**Segmentation by Installation Type:**

Bolt-On Sensors

Magnetic Mount Sensors

Clamp-On Sensors

Embedded Sensors

**Segmentation by Application:**

Manufacturing

Oil and Gas

Energy and Electricity

Mining

Food and Beverage

Other

**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.

SKF Enlight / SKF Condition Monitoring

Siemens Condition Monitoring Sensors

Honeywell Industrial Sensing

ABB Ability Smart Sensors

Schneider Electric EcoStruxure Sensing

Rockwell Automation / Allen-Bradley Sensors

Emerson AMS Wireless Monitoring

Bosch Connected Industrial Sensors

HBM / Hottinger Br?el & Kj?r

Fluke Condition Monitoring

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Smart Condition Monitoring Sensors market?

What factors are driving Smart Condition Monitoring Sensors market growth, globally and by region?

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

How do Smart Condition Monitoring Sensors market opportunities vary by end market size?

How does Smart Condition Monitoring Sensors break out by Type, by Application?

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