

Vietnam Vibration Monitoring Market, By Offering (Hardware, Software and Services), By Monitoring Process (Online and Portable), By System Type (Embedded Systems, Vibration Meters and Vibration Analysers), By Industry (Energy & Power, Chemical, Automotive, Food & Beverages, Oil & Gas, Marine, Pulp & Paper, Aerospace & Defence and Others), By Region, Competition, Forecast & Opportunity, 2019-2029F

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Abstracts

Vietnam Vibration Monitoring Market was valued at USD 62.56 Million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.85% through 2029F. The Vietnam vibration monitoring market, encompassing hardware, software, and services, is poised for significant growth due to several key factors. Rapid industrialization, particularly in sectors like manufacturing, automotive, and energy, is driving demand for advanced maintenance technologies to enhance operational efficiency and safety. Vibration monitoring, essential for predictive maintenance, helps in anticipating equipment failures and scheduling maintenance activities proactively, thereby reducing downtime and maintenance costs. Technological advancements, such as improvements in sensor technology, data analytics, and IoT integration, are enhancing the capabilities and usability of vibration monitoring systems. Additionally, regulatory compliance requirements in industries such as oil & gas and aerospace necessitate reliable vibration monitoring to ensure workplace safety and equipment reliability. The long-term cost benefits associated with minimized downtime and reduced maintenance expenses are further incentivizing businesses to invest in these technologies. Consequently, the hardware segment remains dominant due to the critical

nature of sensors and transmitters, while the software segment is experiencing the fastest growth, fueled by the increasing importance of data analysis and predictive maintenance. As these trends continue, the Vietnam vibration monitoring market is expected to expand significantly, driven by the need for efficiency, safety, and cost-effectiveness across various industries.

Key Market Drivers

Industrial Expansion and Increased Demand for Predictive Maintenance

Vietnam's rapid industrialization, particularly in sectors such as manufacturing, automotive, energy, and power, is a primary driver for the vibration monitoring market. The country's economic growth and industrial expansion necessitate advanced maintenance technologies to enhance operational efficiency and safety. As industries scale up their operations, the complexity and volume of machinery and equipment also increase, making it essential to implement robust monitoring systems to prevent unexpected breakdowns and ensure smooth functioning. Vibration monitoring systems provide continuous or periodic assessments of equipment health, enabling early detection of potential issues. This proactive approach helps in reducing downtime, optimizing maintenance schedules, and extending the lifespan of machinery, thus proving to be cost-effective in the long run.

Predictive maintenance, facilitated by vibration monitoring, is becoming increasingly vital in Vietnam's industrial landscape. Companies are shifting from traditional reactive maintenance strategies, which involve repairing equipment after a failure has occurred, to predictive maintenance strategies that anticipate and address issues before they lead to significant disruptions. This shift is driven by the need to minimize downtime, avoid costly repairs, and maintain high levels of operational efficiency. By continuously monitoring vibrations, businesses can detect anomalies and identify the root causes of potential failures early on. This allows for timely interventions and targeted maintenance activities, ultimately enhancing productivity and reducing operational costs. The growing awareness of these benefits is significantly propelling the adoption of vibration monitoring systems across various industries in Vietnam.

Moreover, the competitive landscape in the industrial sector is compelling companies to adopt state-of-the-art technologies to stay ahead. Vibration monitoring systems not only improve maintenance processes but also contribute to overall operational excellence. Companies that invest in these technologies can achieve higher levels of reliability and performance, thereby gaining a competitive edge in the market. As a result, the

increasing industrial expansion and the rising demand for predictive maintenance are key drivers fueling the growth of the Vietnam vibration monitoring market.

Technological Advancements and Integration of Internet of Things

Technological advancements are playing a pivotal role in driving the Vietnam vibration monitoring market. Innovations in sensor technology, data analytics, and the integration of the Internet of Things are significantly enhancing the capabilities and effectiveness of vibration monitoring systems. Modern sensors are becoming more accurate, reliable, and capable of capturing a wider range of vibration frequencies. These improvements allow for more precise monitoring and early detection of potential issues. Additionally, advancements in data analytics enable the processing and interpretation of large volumes of data collected from sensors, providing valuable insights into equipment health and performance.

The integration of the Internet of Things is revolutionizing the vibration monitoring market by facilitating real-time data collection and analysis. IoT-enabled vibration monitoring systems can continuously transmit data to centralized platforms where it can be analyzed and used for predictive maintenance. This real-time monitoring capability allows for immediate detection of anomalies and prompt responses to potential issues, minimizing downtime and preventing costly equipment failures. The ability to monitor equipment remotely and in real-time is particularly beneficial for industries with geographically dispersed operations or critical infrastructure that requires constant surveillance. The adoption of IoT technologies is therefore a significant driver for the growth of the vibration monitoring market in Vietnam.

Furthermore, the development of sophisticated software solutions is enhancing the functionality and user-friendliness of vibration monitoring systems. Advanced software platforms provide intuitive interfaces, automated reporting, and actionable insights, making it easier for maintenance teams to manage and interpret vibration data. These platforms often include features such as trend analysis, alarm notifications, and integration with other maintenance management systems, streamlining the overall maintenance process. The continuous improvement and innovation in software solutions are making vibration monitoring systems more accessible and effective for businesses of all sizes. As a result, technological advancements and the integration of the Internet of Things are crucial factors driving the growth of the Vietnam vibration monitoring market.

Regulatory Compliance and Emphasis on Workplace Safety

Stringent regulatory compliance requirements and a growing emphasis on workplace safety are major drivers for the vibration monitoring market in Vietnam. Industries such as oil and gas, aerospace, and energy are subject to rigorous safety and reliability standards. Compliance with these regulations necessitates the implementation of robust monitoring systems to ensure the safe and efficient operation of equipment. Vibration monitoring systems play a crucial role in maintaining compliance by providing continuous assessments of machinery health, identifying potential risks, and facilitating timely maintenance interventions. Failure to adhere to regulatory standards can result in severe penalties, operational disruptions, and damage to a company's reputation, making compliance a top priority for businesses.

Workplace safety is another critical factor driving the adoption of vibration monitoring systems. Ensuring the safety of employees and preventing accidents is paramount for companies across all industries. Vibration monitoring helps in identifying equipment malfunctions that could pose safety hazards, allowing for prompt corrective actions to mitigate risks. For instance, excessive vibrations in machinery can lead to mechanical failures, which may result in accidents or injuries. By monitoring and addressing these issues proactively, companies can create a safer working environment for their employees. The increasing focus on occupational health and safety is thus significantly contributing to the growth of the vibration monitoring market in Vietnam.

Additionally, the economic impact of equipment failures and unplanned downtime underscores the importance of reliable monitoring systems. Unexpected breakdowns can lead to substantial financial losses due to halted production, repair costs, and potential damage to other equipment. Vibration monitoring systems help in mitigating these risks by providing early warnings and enabling preventive measures. This not only ensures compliance with safety regulations but also supports overall business continuity and efficiency. The dual benefits of regulatory compliance and enhanced workplace safety are therefore key drivers for the growing adoption of vibration monitoring systems in Vietnam. As industries continue to prioritize safety and compliance, the demand for advanced vibration monitoring solutions is expected to rise, further propelling the market growth.

Key Market Challenges

High Initial Investment and Implementation Costs

One of the significant challenges facing the Vietnam vibration monitoring market is the

high initial investment and implementation costs associated with these advanced systems. The acquisition of high-quality vibration monitoring hardware, such as sensors, transducers, and transmitters, requires substantial capital expenditure. Additionally, implementing a comprehensive vibration monitoring system often involves significant costs related to installation, integration with existing equipment, and the training of personnel to effectively utilize the new technology. Small and medium-sized enterprises, which constitute a large portion of Vietnam's industrial sector, may find these costs prohibitive, thus hindering widespread adoption.

The financial burden is further compounded by the need for ongoing maintenance and calibration of the equipment to ensure accurate and reliable data collection. Advanced vibration monitoring systems also require sophisticated software for data analysis, which entails additional licensing fees and potential customization expenses to tailor the software to specific industry needs. Moreover, companies may need to invest in upgrading their existing infrastructure to support the new technology, such as enhancing network capabilities for real-time data transmission and storage solutions for large volumes of monitoring data.

Another aspect of the high costs involves the human resources needed to manage and interpret the data generated by these systems. Skilled personnel are essential to analyze the vibration data, diagnose potential issues, and recommend appropriate maintenance actions. Training existing staff or hiring new experts incurs further expenses, and the availability of such specialized professionals may be limited, leading to increased hiring costs. These financial and resource-related barriers pose a significant challenge for companies, particularly those operating on tight budgets or in highly competitive markets where cost-efficiency is critical.

Overcoming this challenge requires demonstrating the long-term return on investment that vibration monitoring systems can provide. While the initial costs are high, the potential savings from reduced downtime, extended equipment lifespan, and enhanced operational efficiency can justify the expenditure. However, convincing decision-makers of this value proposition remains a hurdle, especially in industries where immediate financial pressures outweigh long-term benefits. As a result, the high initial investment and implementation costs continue to be a substantial challenge in the adoption of vibration monitoring systems in the Vietnam market.

Limited Awareness and Expertise in Vibration Monitoring Technologies

Another critical challenge for the Vietnam vibration monitoring market is the limited

awareness and expertise in vibration monitoring technologies among businesses and industry professionals. Despite the clear benefits of predictive maintenance and early fault detection, many companies still rely on traditional maintenance practices due to a lack of knowledge about advanced vibration monitoring solutions. This knowledge gap can hinder the adoption of these technologies, as decision-makers may not fully understand the potential advantages or the operational improvements that can be achieved through vibration monitoring.

This lack of awareness is often coupled with insufficient technical expertise within organizations to effectively implement and utilize vibration monitoring systems. Understanding and interpreting vibration data require specialized skills that many maintenance teams may not possess. The complexity of analyzing vibration patterns, identifying potential faults, and making informed maintenance decisions can be daunting for staff who are not trained in these technologies. Consequently, the perceived difficulty in managing and maintaining these systems can deter companies from investing in vibration monitoring.

The situation is exacerbated by the scarcity of specialized training programs and educational resources in Vietnam. While some large multinational companies may have the resources to provide in-house training or hire external consultants, many local businesses lack access to these opportunities. This results in a talent gap where the workforce is not adequately prepared to handle advanced maintenance technologies. Without the necessary expertise, even companies that invest in vibration monitoring systems may struggle to achieve optimal results, leading to underutilization of the technology and suboptimal maintenance outcomes.

Addressing this challenge requires concerted efforts to raise awareness about the benefits of vibration monitoring and to develop the necessary technical skills within the industry. This can be achieved through industry associations, government initiatives, and partnerships between educational institutions and technology providers to offer specialized training programs. Demonstrating successful case studies and quantifiable benefits from early adopters can also help to build confidence and interest in these technologies. Additionally, vendors and solution providers can play a crucial role by offering comprehensive support and training services to help businesses overcome the technical barriers to adoption. By tackling the issues of limited awareness and expertise, the Vietnam vibration monitoring market can unlock its full potential and drive broader acceptance and implementation of these valuable technologies.

Key Market Trends

Integration of Artificial Intelligence and Machine Learning

The integration of artificial intelligence (AI) and machine learning (ML) into vibration monitoring systems is a significant trend in the Vietnam vibration monitoring market. AI and ML technologies enhance the capabilities of vibration monitoring by providing advanced data analysis, predictive insights, and automated decision-making processes. These technologies can analyze vast amounts of vibration data more efficiently than traditional methods, identifying patterns and anomalies that may indicate potential equipment failures. By leveraging AI and ML, companies can achieve more accurate and timely predictions, allowing for proactive maintenance interventions and reducing the risk of unexpected downtime.

AI-driven vibration monitoring systems can continuously learn and improve from historical data, adapting to changing operational conditions and enhancing their predictive accuracy over time. This self-learning capability is particularly valuable in complex industrial environments where machinery operates under varying conditions. The adoption of AI and ML in vibration monitoring also supports the development of more sophisticated diagnostic tools that can provide detailed insights into the root causes of equipment issues, enabling maintenance teams to address problems more effectively. As the technology matures, the integration of AI and ML is expected to become a standard feature in vibration monitoring solutions, driving significant advancements in predictive maintenance practices.

Growth of Wireless Vibration Monitoring Solutions

The growth of wireless vibration monitoring solutions is another notable trend in the Vietnam vibration monitoring market. Wireless systems offer several advantages over traditional wired systems, including easier installation, lower maintenance costs, and greater flexibility in monitoring equipment in hard-to-reach or hazardous locations. The elimination of cables simplifies the deployment process, reducing the time and labor required for installation. This makes wireless solutions particularly appealing for retrofitting existing machinery without extensive modifications.

Wireless vibration monitoring systems facilitate real-time data transmission and remote monitoring, providing maintenance teams with instant access to equipment condition data from anywhere. This capability is especially beneficial for industries with dispersed operations or where equipment is located in remote areas, such as in the oil and gas sector. The ability to monitor machinery remotely enhances operational efficiency and

allows for quicker response to potential issues, minimizing downtime and improving overall productivity. As wireless technology continues to advance and become more reliable, the adoption of wireless vibration monitoring solutions is expected to increase, offering significant benefits in terms of convenience, cost-effectiveness, and operational flexibility.

Emphasis on Sustainability and Energy Efficiency

An increasing emphasis on sustainability and energy efficiency is shaping the Vietnam vibration monitoring market. Companies are increasingly recognizing the importance of sustainable practices and are seeking ways to reduce their environmental impact. Vibration monitoring systems contribute to sustainability by enhancing the efficiency and reliability of machinery, leading to reduced energy consumption and lower emissions. By ensuring that equipment operates optimally, these systems help minimize energy waste and extend the lifespan of machinery, reducing the need for frequent replacements and the associated environmental costs.

Vibration monitoring supports the implementation of predictive maintenance strategies, which further contribute to sustainability by preventing equipment failures and minimizing the production of waste materials. Predictive maintenance reduces the likelihood of catastrophic failures that can result in significant environmental damage, such as oil spills or chemical leaks. Additionally, the data-driven approach of vibration monitoring allows companies to optimize their maintenance schedules, ensuring that maintenance activities are performed only when necessary, thus conserving resources and reducing operational costs.

The growing focus on sustainability is driving companies to adopt advanced technologies that support their environmental goals. Vibration monitoring systems align with these objectives by promoting efficient and responsible use of resources. As businesses increasingly prioritize sustainability, the demand for vibration monitoring solutions that enhance energy efficiency and reduce environmental impact is expected to rise, reinforcing the importance of these systems in the industrial sector.

Segmental Insights

Offering Insights

In 2023, the hardware segment dominated the Vietnam vibration monitoring market and is anticipated to maintain its dominance during the forecast period. This segment's

prominence is primarily driven by the essential role of hardware components, such as sensors, transducers, and transmitters, which are crucial for capturing and transmitting vibration data accurately. The robust demand for high-quality, reliable hardware is fueled by the necessity to ensure precise monitoring and early detection of potential equipment issues across various industries, including manufacturing, energy, and automotive. Furthermore, the ongoing industrial expansion in Vietnam necessitates the deployment of advanced vibration monitoring systems to enhance operational efficiency and equipment reliability. Companies are increasingly investing in state-of-the-art hardware to meet these needs, recognizing the long-term cost savings and productivity benefits associated with improved maintenance practices. Additionally, the integration of cutting-edge technologies such as the Internet of Things and wireless communication in hardware solutions is further enhancing their appeal, offering greater flexibility, ease of installation, and real-time data transmission capabilities. As businesses continue to prioritize the optimization of their maintenance strategies and the minimization of unplanned downtimes, the hardware segment is expected to sustain its leading position in the Vietnam vibration monitoring market. The ongoing advancements in sensor technology and the increasing adoption of predictive maintenance frameworks will likely reinforce the segment's dominance, ensuring its critical role in the market's growth trajectory throughout the forecast period.

Monitoring Process Insights

In 2023, the online monitoring process segment dominated the Vietnam vibration monitoring market and is expected to maintain its dominance during the forecast period. This segment's leading position is driven by the significant advantages of online monitoring, including continuous real-time data acquisition, early detection of anomalies, and the ability to provide immediate alerts on potential equipment failures. Online vibration monitoring systems are integral to predictive maintenance strategies, enabling businesses to monitor the health of their machinery round-the-clock without requiring manual intervention. This continuous monitoring is crucial in industries where equipment reliability and uptime are paramount, such as energy, oil and gas, and manufacturing. The rise in industrial automation and the integration of the Internet of Things further bolster the adoption of online monitoring systems, as these technologies facilitate seamless data collection, transmission, and analysis. Companies are increasingly investing in online monitoring solutions to enhance operational efficiency, reduce unplanned downtimes, and optimize maintenance schedules. Additionally, the convenience of remote monitoring capabilities offered by online systems allows maintenance teams to oversee equipment performance from any location, thereby improving response times and decision-making processes. As businesses continue to

prioritize efficiency, reliability, and proactive maintenance approaches, the demand for online vibration monitoring systems is expected to grow. The segment's ability to deliver comprehensive, real-time insights into machinery health ensures its continued dominance in the Vietnam vibration monitoring market throughout the forecast period, driven by technological advancements and the expanding implementation of digital maintenance solutions.

Regional Insights

In 2023, North Vietnam dominated the Vietnam vibration monitoring market and is expected to maintain its dominance during the forecast period. This region's leading position is attributed to its significant industrial base, which includes major manufacturing hubs, industrial zones, and economic centers. North Vietnam, particularly around Hanoi and the Red River Delta, hosts a large number of manufacturing plants, automotive factories, and energy production facilities, all of which require advanced vibration monitoring systems to ensure operational efficiency and equipment reliability. The region's well-developed infrastructure and higher concentration of industrial activities create substantial demand for vibration monitoring solutions to support predictive maintenance and minimize downtime. Furthermore, North Vietnam benefits from substantial foreign direct investment and government initiatives aimed at boosting industrial growth, which in turn drives the adoption of advanced maintenance technologies, including vibration monitoring. The presence of key market players and service providers in this region also facilitates easier access to cutting-edge hardware, software, and services, further enhancing its market dominance. As industries in North Vietnam continue to expand and modernize, the demand for reliable and effective vibration monitoring systems is expected to grow. The ongoing industrial development, coupled with technological advancements and increasing awareness of the benefits of predictive maintenance, ensures that North Vietnam will remain the leading region in the Vietnam vibration monitoring market throughout the forecast period. This sustained dominance is driven by the region's strategic importance in the country's industrial landscape and its commitment to maintaining high standards of operational efficiency and machinery health.

Key Market Players

Emerson Electric Co.

AB SKF

General Electric Company

Rockwell Automation, Inc.

Honeywell International Inc.

Siemens AG

ABB Ltd

Schaeffler AG

Fluke Corporation

National Instruments Corporation

Report Scope:

In this report, the Vietnam Vibration Monitoring Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vietnam Vibration Monitoring Market, By Offering:

Hardware

Software

Services

Vietnam Vibration Monitoring Market, By Monitoring Process:

Online

Portable

Vietnam Vibration Monitoring Market, By System Type:

Embedded Systems

Vibration Meters

Vibration Analysers

Vietnam Vibration Monitoring Market, By Industry:

Energy & Power

Chemical

Automotive

Food & Beverages

Oil & Gas

Marine

Pulp & Paper

Aerospace & Defence

Others

Vietnam Vibration Monitoring Market, By Region:

North Vietnam

South Vietnam

Central Vietnam

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam Vibration Monitoring Market.

Vietnam Vibration Monitoring Market, By Offering (Hardware, Software and Services), By Monitoring Process (Onl...

Available Customizations:

Vietnam Vibration Monitoring Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. SERVICE OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON VIETNAM VIBRATION MONITORING MARKET

5. VOICE OF CUSTOMER

6. VIETNAM VIBRATION MONITORING MARKET OVERVIEW

7. VIETNAM VIBRATION MONITORING MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast

- 7.2.1.By Offering (Hardware, Software and Services)
- 7.2.2.By Monitoring Process (Online and Portable)
- 7.2.3.By System Type (Embedded Systems, Vibration Meters and Vibration Analysers)
- 7.2.4.By Industry (Energy & Power, Chemical, Automotive, Food & Beverages, Oil & Gas, Marine, Pulp & Paper, Aerospace & Defence and Others)
- 7.2.5.By Region (North Vietnam, South Vietnam, Central Vietnam)
- 7.3. By Company (2023)
- 7.4. Market Map

8. NORTH VIETNAM VIBRATION MONITORING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1.By Value
- 8.2. Market Share & Forecast
 - 8.2.1.By Offering
 - 8.2.2.By Monitoring Process
 - 8.2.3.By System Type
 - 8.2.4.By Industry

9. SOUTH VIETNAM VIBRATION MONITORING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1.By Value
- 9.2. Market Share & Forecast
 - 9.2.1.By Offering
 - 9.2.2.By Monitoring Process
 - 9.2.3.By System Type
 - 9.2.4.By Industry

10. CENTRAL VIETNAM VIBRATION MONITORING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Offering
 - 10.2.2. By Monitoring Process
 - 10.2.3. By System Type
 - 10.2.4. By Industry

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

13. COMPANY PROFILES

13.1. Emerson Electric Co.

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel/Key Contact Person

13.1.5. Key Product/Services Offered

13.2. AB SKF

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel/Key Contact Person

13.2.5. Key Product/Services Offered

13.3. General Electric Company

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

13.3.4. Key Personnel/Key Contact Person

13.3.5. Key Product/Services Offered

13.4. Rockwell Automation, Inc.

13.4.1. Business Overview

13.4.2. Key Revenue and Financials

13.4.3. Recent Developments

13.4.4. Key Personnel/Key Contact Person

13.4.5. Key Product/Services Offered

13.5. Honeywell International Inc.

13.5.1. Business Overview

13.5.2. Key Revenue and Financials

13.5.3. Recent Developments

13.5.4. Key Personnel/Key Contact Person

13.5.5. Key Product/Services Offered

13.6. Siemens AG

13.6.1. Business Overview

13.6.2. Key Revenue and Financials

13.6.3. Recent Developments

13.6.4. Key Personnel/Key Contact Person

13.6.5. Key Product/Services Offered

13.7. ABB Ltd

13.7.1. Business Overview

13.7.2. Key Revenue and Financials

13.7.3. Recent Developments

13.7.4. Key Personnel/Key Contact Person

13.7.5. Key Product/Services Offered

13.8. Schaeffler AG

13.8.1. Business Overview

13.8.2. Key Revenue and Financials

13.8.3. Recent Developments

13.8.4. Key Personnel/Key Contact Person

13.8.5. Key Product/Services Offered

13.9. Fluke Corporation

13.9.1. Business Overview

13.9.2. Key Revenue and Financials

13.9.3. Recent Developments

13.9.4. Key Personnel/Key Contact Person

13.9.5. Key Product/Services Offered

13.10. National Instruments Corporation

13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel/Key Contact Person

13.10.5. Key Product/Services Offered

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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