

Global Passive Structural Health Monitoring System Market Research Report 2026(Status and Outlook)

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Abstracts

A Passive Structural Health Monitoring (SHM) System refers to a system designed to assess the health and integrity of structures without the need for external energy input. These systems rely on natural responses of the structure, such as vibrations, temperature changes, or acoustic emissions, to monitor its condition. Typically, passive sensors (such as accelerometers, strain gauges, or piezoelectric sensors) are used to detect and measure these natural signals. By analyzing the collected data, engineers can identify early signs of damage or degradation, allowing for proactive maintenance and ensuring the safety and longevity of the structure. Passive SHM systems are particularly advantageous because they are energy-efficient, do not require power supplies, and can continuously monitor a structure over long periods.

The global Passive Structural Health Monitoring System market size was estimated at USD 2514.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Passive Structural Health Monitoring System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Passive Structural Health Monitoring System market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Passive Structural Health Monitoring System market.

Global Passive Structural Health Monitoring System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

SIXENSE Systems
Geocomp Corp
Nova Metrix LLC
Acellent Technologies Inc
Hottinger Baldwin Messtechnik GmbH (HBM)
Sodis Lab
Strainstall
Digitexx Data Systems, Inc
Geosig Ltd
Kinematics Inc
InnaLabs

SMARTEC
MS Systems

Market Segmentation (by Type)

On-Cloud
On-Premise

Market Segmentation (by Application)

Construction Companies
Infrastructure Operators
Government
Energy and Industrial Companies
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Passive Structural Health Monitoring System Market
Overview of the regional outlook of the Passive Structural Health Monitoring System Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Passive Structural Health Monitoring System Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Passive Structural Health Monitoring System, their output value, profit level, regional supply, production capacity layout, etc.

from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Passive Structural Health Monitoring System
- 1.2 Key Market Segments
 - 1.2.1 Passive Structural Health Monitoring System Segment by Type
 - 1.2.2 Passive Structural Health Monitoring System Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Passive Structural Health Monitoring System Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Passive Structural Health Monitoring System Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Passive Structural Health Monitoring System Product Life Cycle
- 3.3 Global Passive Structural Health Monitoring System Sales by Manufacturers (2020-2025)
- 3.4 Global Passive Structural Health Monitoring System Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Passive Structural Health Monitoring System Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Passive Structural Health Monitoring System Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Passive Structural Health Monitoring System Market Competitive Situation and Trends
 - 3.8.1 Passive Structural Health Monitoring System Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Passive Structural Health Monitoring System Players
- Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM INDUSTRY CHAIN ANALYSIS

- 4.1 Passive Structural Health Monitoring System Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Passive Structural Health Monitoring System Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Passive Structural Health Monitoring System Market
- 5.7 ESG Ratings of Leading Companies

6 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Passive Structural Health Monitoring System Sales Market Share by Type (2020-2025)
- 6.3 Global Passive Structural Health Monitoring System Market Size by Type (2020-2025)
- 6.4 Global Passive Structural Health Monitoring System Price by Type (2020-2025)

7 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Passive Structural Health Monitoring System Market Sales by Application (2020-2025)
- 7.3 Global Passive Structural Health Monitoring System Market Size (M USD) by Application (2020-2025)
- 7.4 Global Passive Structural Health Monitoring System Sales Growth Rate by Application (2020-2025)

8 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET SALES BY REGION

- 8.1 Global Passive Structural Health Monitoring System Sales by Region
 - 8.1.1 Global Passive Structural Health Monitoring System Sales by Region
 - 8.1.2 Global Passive Structural Health Monitoring System Sales Market Share by Region
- 8.2 Global Passive Structural Health Monitoring System Market Size by Region
 - 8.2.1 Global Passive Structural Health Monitoring System Market Size by Region
 - 8.2.2 Global Passive Structural Health Monitoring System Market Size by Region
- 8.3 North America
 - 8.3.1 North America Passive Structural Health Monitoring System Sales by Country
 - 8.3.2 North America Passive Structural Health Monitoring System Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Passive Structural Health Monitoring System Sales by Country

8.4.2 Europe Passive Structural Health Monitoring System Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Passive Structural Health Monitoring System Sales by Region

8.5.2 Asia Pacific Passive Structural Health Monitoring System Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Passive Structural Health Monitoring System Sales by Country

8.6.2 South America Passive Structural Health Monitoring System Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Passive Structural Health Monitoring System Sales by Region

8.7.2 Middle East and Africa Passive Structural Health Monitoring System Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET PRODUCTION BY REGION

9.1 Global Production of Passive Structural Health Monitoring System by Region(2020-2025)

9.2 Global Passive Structural Health Monitoring System Revenue Market Share by Region (2020-2025)

9.3 Global Passive Structural Health Monitoring System Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Passive Structural Health Monitoring System Production

9.4.1 North America Passive Structural Health Monitoring System Production Growth Rate (2020-2025)

9.4.2 North America Passive Structural Health Monitoring System Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Passive Structural Health Monitoring System Production

9.5.1 Europe Passive Structural Health Monitoring System Production Growth Rate (2020-2025)

9.5.2 Europe Passive Structural Health Monitoring System Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Passive Structural Health Monitoring System Production (2020-2025)

9.6.1 Japan Passive Structural Health Monitoring System Production Growth Rate (2020-2025)

9.6.2 Japan Passive Structural Health Monitoring System Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Passive Structural Health Monitoring System Production (2020-2025)

9.7.1 China Passive Structural Health Monitoring System Production Growth Rate (2020-2025)

9.7.2 China Passive Structural Health Monitoring System Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 SIXENSE Systems

10.1.1 SIXENSE Systems Basic Information

10.1.2 SIXENSE Systems Passive Structural Health Monitoring System Product Overview

10.1.3 SIXENSE Systems Passive Structural Health Monitoring System Product Market Performance

10.1.4 SIXENSE Systems Business Overview

10.1.5 SIXENSE Systems SWOT Analysis

10.1.6 SIXENSE Systems Recent Developments

10.2 Geocomp Corp

10.2.1 Geocomp Corp Basic Information

10.2.2 Geocomp Corp Passive Structural Health Monitoring System Product Overview

10.2.3 Geocomp Corp Passive Structural Health Monitoring System Product Market Performance

10.2.4 Geocomp Corp Business Overview

10.2.5 Geocomp Corp SWOT Analysis

10.2.6 Geocomp Corp Recent Developments

10.3 Nova Metrix LLC

10.3.1 Nova Metrix LLC Basic Information

10.3.2 Nova Metrix LLC Passive Structural Health Monitoring System Product Overview

10.3.3 Nova Metrix LLC Passive Structural Health Monitoring System Product Market Performance

10.3.4 Nova Metrix LLC Business Overview

10.3.5 Nova Metrix LLC SWOT Analysis

10.3.6 Nova Metrix LLC Recent Developments

10.4 Acellent Technologies Inc

10.4.1 Acellent Technologies Inc Basic Information

10.4.2 Acellent Technologies Inc Passive Structural Health Monitoring System Product Overview

10.4.3 Acellent Technologies Inc Passive Structural Health Monitoring System Product Market Performance

10.4.4 Acellent Technologies Inc Business Overview

10.4.5 Acellent Technologies Inc Recent Developments

10.5 Hottinger Baldwin Messtechnik GmbH (HBM)

10.5.1 Hottinger Baldwin Messtechnik GmbH (HBM) Basic Information

10.5.2 Hottinger Baldwin Messtechnik GmbH (HBM) Passive Structural Health Monitoring System Product Overview

10.5.3 Hottinger Baldwin Messtechnik GmbH (HBM) Passive Structural Health Monitoring System Product Market Performance

10.5.4 Hottinger Baldwin Messtechnik GmbH (HBM) Business Overview

10.5.5 Hottinger Baldwin Messtechnik GmbH (HBM) Recent Developments

10.6 Sodis Lab

10.6.1 Sodis Lab Basic Information

10.6.2 Sodis Lab Passive Structural Health Monitoring System Product Overview

10.6.3 Sodis Lab Passive Structural Health Monitoring System Product Market Performance

10.6.4 Sodis Lab Business Overview

10.6.5 Sodis Lab Recent Developments

10.7 Strainstall

10.7.1 Strainstall Basic Information

- 10.7.2 Straininstall Passive Structural Health Monitoring System Product Overview
- 10.7.3 Straininstall Passive Structural Health Monitoring System Product Market Performance
- 10.7.4 Straininstall Business Overview
- 10.7.5 Straininstall Recent Developments
- 10.8 Digitexx Data Systems, Inc
 - 10.8.1 Digitexx Data Systems, Inc Basic Information
 - 10.8.2 Digitexx Data Systems, Inc Passive Structural Health Monitoring System Product Overview
 - 10.8.3 Digitexx Data Systems, Inc Passive Structural Health Monitoring System Product Market Performance
 - 10.8.4 Digitexx Data Systems, Inc Business Overview
 - 10.8.5 Digitexx Data Systems, Inc Recent Developments
- 10.9 Geosig Ltd
 - 10.9.1 Geosig Ltd Basic Information
 - 10.9.2 Geosig Ltd Passive Structural Health Monitoring System Product Overview
 - 10.9.3 Geosig Ltd Passive Structural Health Monitoring System Product Market Performance
 - 10.9.4 Geosig Ltd Business Overview
 - 10.9.5 Geosig Ltd Recent Developments
- 10.10 Kinemetrics Inc
 - 10.10.1 Kinemetrics Inc Basic Information
 - 10.10.2 Kinemetrics Inc Passive Structural Health Monitoring System Product Overview
 - 10.10.3 Kinemetrics Inc Passive Structural Health Monitoring System Product Market Performance
 - 10.10.4 Kinemetrics Inc Business Overview
 - 10.10.5 Kinemetrics Inc Recent Developments
- 10.11 InnaLabs
 - 10.11.1 InnaLabs Basic Information
 - 10.11.2 InnaLabs Passive Structural Health Monitoring System Product Overview
 - 10.11.3 InnaLabs Passive Structural Health Monitoring System Product Market Performance
 - 10.11.4 InnaLabs Business Overview
 - 10.11.5 InnaLabs Recent Developments
- 10.12 SMARTEC
 - 10.12.1 SMARTEC Basic Information
 - 10.12.2 SMARTEC Passive Structural Health Monitoring System Product Overview
 - 10.12.3 SMARTEC Passive Structural Health Monitoring System Product Market

Performance

- 10.12.4 SMARTEC Business Overview
- 10.12.5 SMARTEC Recent Developments

10.13 MS Systems

- 10.13.1 MS Systems Basic Information
- 10.13.2 MS Systems Passive Structural Health Monitoring System Product Overview
- 10.13.3 MS Systems Passive Structural Health Monitoring System Product Market

Performance

- 10.13.4 MS Systems Business Overview
- 10.13.5 MS Systems Recent Developments

11 PASSIVE STRUCTURAL HEALTH MONITORING SYSTEM MARKET FORECAST BY REGION

11.1 Global Passive Structural Health Monitoring System Market Size Forecast

11.2 Global Passive Structural Health Monitoring System Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Passive Structural Health Monitoring System Market Size Forecast by Country

11.2.3 Asia Pacific Passive Structural Health Monitoring System Market Size Forecast by Region

11.2.4 South America Passive Structural Health Monitoring System Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Passive Structural Health Monitoring System by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Passive Structural Health Monitoring System Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Passive Structural Health Monitoring System by Type (2026-2035)

12.1.2 Global Passive Structural Health Monitoring System Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Passive Structural Health Monitoring System by Type (2026-2035)

12.2 Global Passive Structural Health Monitoring System Market Forecast by Application (2026-2035)

12.2.1 Global Passive Structural Health Monitoring System Sales (K Units) Forecast

by Application

12.2.2 Global Passive Structural Health Monitoring System Market Size (M USD)
Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Passive Structural Health Monitoring System Market Size by Type (M USD)

Table 4. Global Passive Structural Health Monitoring System Market Size by Application

Table 5. Passive Structural Health Monitoring System Market Size Comparison by Region (M USD)

Table 6. Global Passive Structural Health Monitoring System Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Passive Structural Health Monitoring System Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Passive Structural Health Monitoring System Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Passive Structural Health Monitoring System Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Passive Structural Health Monitoring System as of 2025)

Table 11. Global Market Passive Structural Health Monitoring System Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Passive Structural Health Monitoring System Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Passive Structural Health Monitoring System Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Passive Structural Health Monitoring System Sales by Type (K Units)

Table 27. Global Passive Structural Health Monitoring System Market Size by Type (M USD)

Table 28. Global Passive Structural Health Monitoring System Sales (K Units) by Type (2020-2025)

Table 29. Global Passive Structural Health Monitoring System Sales Market Share by Type (2020-2025)

Table 30. Global Passive Structural Health Monitoring System Market Size (M USD) by Type (2020-2025)

Table 31. Global Passive Structural Health Monitoring System Market Share by Type (2020-2025)

Table 32. Global Passive Structural Health Monitoring System Price (USD/Unit) by Type (2020-2025)

Table 33. Global Passive Structural Health Monitoring System Sales (K Units) by Application

Table 34. Global Passive Structural Health Monitoring System Market Size by Application

Table 35. Global Passive Structural Health Monitoring System Sales by Application (2020-2025) & (K Units)

Table 36. Global Passive Structural Health Monitoring System Sales Market Share by Application (2020-2025)

Table 37. Global Passive Structural Health Monitoring System Market Size by Application (2020-2025) & (M USD)

Table 38. Global Passive Structural Health Monitoring System Market Share by Application (2020-2025)

Table 39. Global Passive Structural Health Monitoring System Sales Growth Rate by Application (2020-2025)

Table 40. Global Passive Structural Health Monitoring System Sales by Region (2020-2025) & (K Units)

Table 41. Global Passive Structural Health Monitoring System Sales Market Share by Region (2020-2025)

Table 42. Global Passive Structural Health Monitoring System Market Size by Region (2020-2025) & (M USD)

Table 43. Global Passive Structural Health Monitoring System Market Size by Region (2020-2025)

Table 44. North America Passive Structural Health Monitoring System Sales by Country (2020-2025) & (K Units)

Table 45. North America Passive Structural Health Monitoring System Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Passive Structural Health Monitoring System Sales by Country (2020-2025) & (K Units)

Table 47. Europe Passive Structural Health Monitoring System Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Passive Structural Health Monitoring System Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Passive Structural Health Monitoring System Market Size by Region (2020-2025) & (M USD)

Table 50. South America Passive Structural Health Monitoring System Sales by Country (2020-2025) & (K Units)

Table 51. South America Passive Structural Health Monitoring System Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Passive Structural Health Monitoring System Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Passive Structural Health Monitoring System Market Size by Region (2020-2025) & (M USD)

Table 54. Global Passive Structural Health Monitoring System Production (K Units) by Region(2020-2025)

Table 55. Global Passive Structural Health Monitoring System Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Passive Structural Health Monitoring System Revenue Market Share by Region (2020-2025)

Table 57. Global Passive Structural Health Monitoring System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Passive Structural Health Monitoring System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Passive Structural Health Monitoring System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Passive Structural Health Monitoring System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Passive Structural Health Monitoring System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. SIXENSE Systems Basic Information

Table 63. SIXENSE Systems Passive Structural Health Monitoring System Product Overview

Table 64. SIXENSE Systems Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. SIXENSE Systems Business Overview

Table 66. SIXENSE Systems SWOT Analysis

- Table 67. SIXENSE Systems Recent Developments
- Table 68. Geocomp Corp Basic Information
- Table 69. Geocomp Corp Passive Structural Health Monitoring System Product Overview
- Table 70. Geocomp Corp Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Geocomp Corp Business Overview
- Table 72. Geocomp Corp SWOT Analysis
- Table 73. Geocomp Corp Recent Developments
- Table 74. Nova Metrix LLC Basic Information
- Table 75. Nova Metrix LLC Passive Structural Health Monitoring System Product Overview
- Table 76. Nova Metrix LLC Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Nova Metrix LLC Business Overview
- Table 78. Nova Metrix LLC SWOT Analysis
- Table 79. Nova Metrix LLC Recent Developments
- Table 80. Acellent Technologies Inc Basic Information
- Table 81. Acellent Technologies Inc Passive Structural Health Monitoring System Product Overview
- Table 82. Acellent Technologies Inc Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Acellent Technologies Inc Business Overview
- Table 84. Acellent Technologies Inc Recent Developments
- Table 85. Hottinger Baldwin Messtechnik GmbH (HBM) Basic Information
- Table 86. Hottinger Baldwin Messtechnik GmbH (HBM) Passive Structural Health Monitoring System Product Overview
- Table 87. Hottinger Baldwin Messtechnik GmbH (HBM) Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Hottinger Baldwin Messtechnik GmbH (HBM) Business Overview
- Table 89. Hottinger Baldwin Messtechnik GmbH (HBM) Recent Developments
- Table 90. Sodis Lab Basic Information
- Table 91. Sodis Lab Passive Structural Health Monitoring System Product Overview
- Table 92. Sodis Lab Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Sodis Lab Business Overview
- Table 94. Sodis Lab Recent Developments
- Table 95. Strainstall Basic Information

Table 96. Straininstall Passive Structural Health Monitoring System Product Overview

Table 97. Straininstall Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Straininstall Business Overview

Table 99. Straininstall Recent Developments

Table 100. Digitexx Data Systems, Inc Basic Information

Table 101. Digitexx Data Systems, Inc Passive Structural Health Monitoring System Product Overview

Table 102. Digitexx Data Systems, Inc Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Digitexx Data Systems, Inc Business Overview

Table 104. Digitexx Data Systems, Inc Recent Developments

Table 105. Geosig Ltd Basic Information

Table 106. Geosig Ltd Passive Structural Health Monitoring System Product Overview

Table 107. Geosig Ltd Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Geosig Ltd Business Overview

Table 109. Geosig Ltd Recent Developments

Table 110. Kinemetrics Inc Basic Information

Table 111. Kinemetrics Inc Passive Structural Health Monitoring System Product Overview

Table 112. Kinemetrics Inc Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Kinemetrics Inc Business Overview

Table 114. Kinemetrics Inc Recent Developments

Table 115. InnaLabs Basic Information

Table 116. InnaLabs Passive Structural Health Monitoring System Product Overview

Table 117. InnaLabs Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. InnaLabs Business Overview

Table 119. InnaLabs Recent Developments

Table 120. SMARTEC Basic Information

Table 121. SMARTEC Passive Structural Health Monitoring System Product Overview

Table 122. SMARTEC Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. SMARTEC Business Overview

Table 124. SMARTEC Recent Developments

Table 125. MS Systems Basic Information

Table 126. MS Systems Passive Structural Health Monitoring System Product Overview

Table 127. MS Systems Passive Structural Health Monitoring System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. MS Systems Business Overview

Table 129. MS Systems Recent Developments

Table 130. Global Passive Structural Health Monitoring System Sales Forecast by Region (2026-2035) & (K Units)

Table 131. Global Passive Structural Health Monitoring System Market Size Forecast by Region (2026-2035) & (M USD)

Table 132. North America Passive Structural Health Monitoring System Sales Forecast by Country (2026-2035) & (K Units)

Table 133. North America Passive Structural Health Monitoring System Market Size Forecast by Country (2026-2035) & (M USD)

Table 134. Europe Passive Structural Health Monitoring System Sales Forecast by Country (2026-2035) & (K Units)

Table 135. Europe Passive Structural Health Monitoring System Market Size Forecast by Country (2026-2035) & (M USD)

Table 136. Asia Pacific Passive Structural Health Monitoring System Sales Forecast by Region (2026-2035) & (K Units)

Table 137. Asia Pacific Passive Structural Health Monitoring System Market Size Forecast by Region (2026-2035) & (M USD)

Table 138. South America Passive Structural Health Monitoring System Sales Forecast by Country (2026-2035) & (K Units)

Table 139. South America Passive Structural Health Monitoring System Market Size Forecast by Country (2026-2035) & (M USD)

Table 140. Middle East and Africa Passive Structural Health Monitoring System Sales Forecast by Country (2026-2035) & (Units)

Table 141. Middle East and Africa Passive Structural Health Monitoring System Market Size Forecast by Country (2026-2035) & (M USD)

Table 142. Global Passive Structural Health Monitoring System Sales Forecast by Type (2026-2035) & (K Units)

Table 143. Global Passive Structural Health Monitoring System Market Size Forecast by Type (2026-2035) & (M USD)

Table 144. Global Passive Structural Health Monitoring System Price Forecast by Type (2026-2035) & (USD/Unit)

Table 145. Global Passive Structural Health Monitoring System Sales (K Units) Forecast by Application (2026-2035)

Table 146. Global Passive Structural Health Monitoring System Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Passive Structural Health Monitoring System
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Passive Structural Health Monitoring System Market Size (M USD), 2025-2035
- Figure 5. Global Passive Structural Health Monitoring System Market Size (M USD) (2020-2035)
- Figure 6. Global Passive Structural Health Monitoring System Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Passive Structural Health Monitoring System Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Passive Structural Health Monitoring System Product Life Cycle
- Figure 13. Passive Structural Health Monitoring System Sales Share by Manufacturers in 2025
- Figure 14. Global Passive Structural Health Monitoring System Revenue Share by Manufacturers in 2025
- Figure 15. Passive Structural Health Monitoring System Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Passive Structural Health Monitoring System Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Passive Structural Health Monitoring System Revenue in 2025
- Figure 18. Industry Chain Map of Passive Structural Health Monitoring System
- Figure 19. Global Passive Structural Health Monitoring System Market PEST Analysis
- Figure 20. Global Passive Structural Health Monitoring System Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Passive Structural Health Monitoring System Market Share by Type

Figure 27. Sales Market Share of Passive Structural Health Monitoring System by Type (2020-2025)

Figure 28. Sales Market Share of Passive Structural Health Monitoring System by Type in 2025

Figure 29. Market Share of Passive Structural Health Monitoring System by Type (2020-2025)

Figure 30. Market Share of Passive Structural Health Monitoring System by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Passive Structural Health Monitoring System Market Share by Application

Figure 33. Global Passive Structural Health Monitoring System Sales Market Share by Application (2020-2025)

Figure 34. Global Passive Structural Health Monitoring System Sales Market Share by Application in 2025

Figure 35. Global Passive Structural Health Monitoring System Market Share by Application (2020-2025)

Figure 36. Global Passive Structural Health Monitoring System Market Share by Application in 2025

Figure 37. Global Passive Structural Health Monitoring System Sales Growth Rate by Application (2020-2025)

Figure 38. Global Passive Structural Health Monitoring System Sales Market Share by Region (2020-2025)

Figure 39. Global Passive Structural Health Monitoring System Market Size by Region (2020-2025)

Figure 40. North America Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Passive Structural Health Monitoring System Sales Market Share by Country in 2024

Figure 43. North America Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Passive Structural Health Monitoring System Market Size by Country in 2024

Figure 45. U.S. Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Passive Structural Health Monitoring System Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada Passive Structural Health Monitoring System Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Passive Structural Health Monitoring System Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Passive Structural Health Monitoring System Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Passive Structural Health Monitoring System Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Passive Structural Health Monitoring System Sales Market Share by Country in 2024

Figure 53. Europe Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Passive Structural Health Monitoring System Market Size by Country in 2024

Figure 55. Germany Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Passive Structural Health Monitoring System Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Passive Structural Health Monitoring System Sales Market Share by Region in 2024

Figure 67. Asia Pacific Passive Structural Health Monitoring System Market Size by Region in 2024

Figure 68. China Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Passive Structural Health Monitoring System Sales and Growth Rate (K Units)

Figure 79. South America Passive Structural Health Monitoring System Sales Market Share by Country in 2024

Figure 80. South America Passive Structural Health Monitoring System Market Size and Growth Rate (M USD)

Figure 81. South America Passive Structural Health Monitoring System Market Size by Country in 2024

Figure 82. Brazil Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Passive Structural Health Monitoring System Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Passive Structural Health Monitoring System Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Passive Structural Health Monitoring System Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Passive Structural Health Monitoring System Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Passive Structural Health Monitoring System Market Size by Region in 2024

Figure 92. Saudi Arabia Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Passive Structural Health Monitoring System Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Passive Structural Health Monitoring System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Passive Structural Health Monitoring System Production Market Share by Region (2020-2025)

Figure 103. North America Passive Structural Health Monitoring System Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Passive Structural Health Monitoring System Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Passive Structural Health Monitoring System Production (K Units) Growth Rate (2020-2025)

Figure 106. China Passive Structural Health Monitoring System Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Passive Structural Health Monitoring System Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Passive Structural Health Monitoring System Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Passive Structural Health Monitoring System Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Passive Structural Health Monitoring System Market Share Forecast by Type (2026-2035)

Figure 111. Global Passive Structural Health Monitoring System Sales Forecast by Application (2026-2035)

Figure 112. Global Passive Structural Health Monitoring System Market Share Forecast by Application (2026-2035)

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