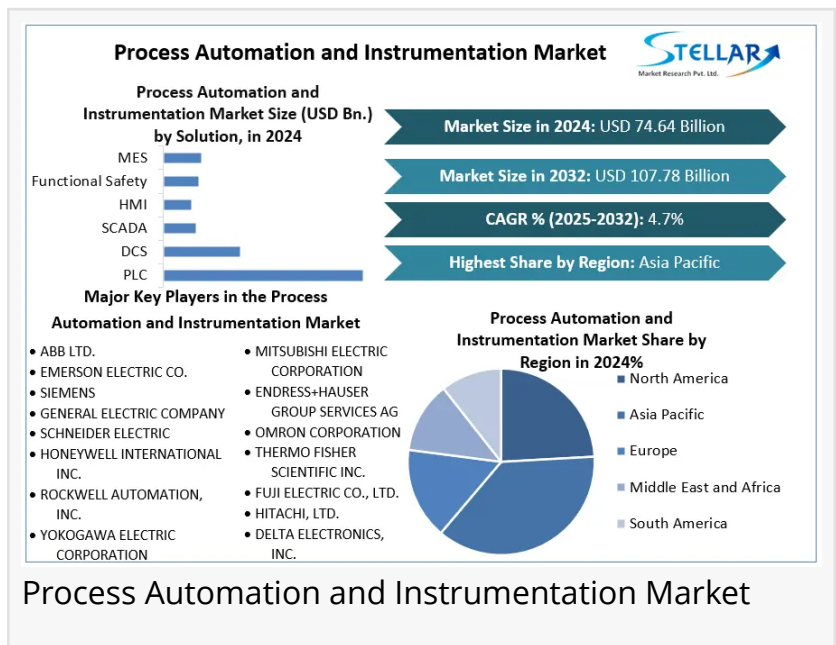


# Process Automation and Instrumentation Market Size, Growth, Trends & Forecast 2025-2032 | Global Industry Outlook

*Process automation and instrumentation is referred to as the transformation of human thoughts into a computerized and technical model.*

MIAMI, FL, UNITED STATES, September 26, 2025 /EINPresswire.com/ -- Explore the [Process Automation and Instrumentation Market](#) forecast 2025-2032, valued at US\$ 74.64 Bn in 2024 and projected to reach US\$ 107.78 Bn by 2032. Discover key trends, growth drivers, market dynamics, and segmentation by instrument, solution, industry, and region. See how innovations in automation, IIoT, and industrial instrumentation are shaping the future and driving market growth."



The Process Automation and Instrumentation Market is set to skyrocket from US\$ 74.64 Bn in 2024 to US\$ 107.78 Bn by 2032, transforming industries with PLCs, DCS, SCADA, HMI, MES, and smart instruments. Fueled by AI, ML, and IIoT, it supercharges efficiency, slashes costs, and boosts productivity across Oil & Gas, Pharmaceuticals, Chemicals, and Food & Beverages, as ABB, Siemens, Emerson, Honeywell, and Rockwell redefine the future of industrial automation.

**“** The Process Automation and Instrumentation Market is growing as industries adopt smart technologies to enhance efficiency, ensure safety, reduce costs, and achieve real-time process optimization.”

Navneet Kaur

Transforming Industries: How PLCs, DCS, and SCADA Are Shaping the Future of Process Automation and Instrumentation

The Process Automation and Instrumentation Market is revolutionizing industries, driven by the

relentless demand for operational efficiency, cost reduction, and superior productivity. With PLCs, DCS, SCADA, and smart field instruments powering next-generation manufacturing, and IIoT, AI, and machine learning enabling real-time insights, businesses are transforming processes, boosting quality, and achieving energy efficiency. Explore how cutting-edge automation is redefining industrial success.

□ Access the full Research Description at:  
<https://www.stellarmr.com/report/request/sample/Process-Automation-and-Instrumentation-Market/313>

| Global Process Automation and Instrumentation Market Segments Covered |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| By Instrument                                                         | Field Instruments<br>Level Transmitters<br>Pressure Transmitters<br>Temperature Transmitters<br>Others                                                                                                                                                                                                                                                                                                                                                                |
| By Solution                                                           | PLC<br>DCS<br>SCADA<br>HMI<br>Functional Safety<br>MES                                                                                                                                                                                                                                                                                                                                                                                                                |
| By Industry                                                           | Oil & Gas<br>Chemicals<br>Pulp & Paper<br>Pharmaceuticals<br>Metals & Mining<br>Food & Beverages<br>Energy & Power<br>Water & Wastewater Treatment<br>Others                                                                                                                                                                                                                                                                                                          |
| By Region                                                             | <b>North America</b> - United States, Canada, and Mexico<br><b>Europe</b> – UK, France, Germany, Italy, Spain, Sweden, Russia, and Rest of Europe<br><b>Asia Pacific</b> – China, South Korea, Japan, India, Australia, Indonesia, Philippines, Malaysia, Vietnam, Thailand, Rest of APAC<br><b>Middle East and Africa</b> - South Africa, GCC, Egypt, Nigeria, Rest of the Middle East and Africa<br><b>South America</b> – Brazil, Argentina, Rest of South America |

Process Automation and Instrumentation Market Segment

Driving Operational Excellence:  
Strategic Growth in the Process Automation and Instrumentation Market

As industries race toward digital transformation and smart manufacturing innovations, cutting-edge AI, machine learning, and IIoT-enabled instrumentation are reshaping operational efficiency and driving predictive maintenance. Companies in pharmaceuticals, energy, chemicals, and food & beverage sectors are seizing this moment to boost productivity, reduce downtime, and gain a competitive edge. This wave of technological disruption is creating unparalleled growth potential in the Process Automation and Instrumentation Market.

Navigating High Stakes and Fierce Rivalry: Challenges Shaping the Process Automation and Instrumentation Market

Intense competition and high entry costs are creating significant hurdles for industry leaders, challenging innovation and growth. Limited product differentiation fuels rivalry from local and regional players, putting pressure on margins and market strategies. These factors collectively impact adoption rates and strategic expansion in the Process Automation and Instrumentation Market, making it crucial for companies to innovate and optimize investments to stay ahead.

Precision, Performance, Progress: Discover the Rising Force of the Process Automation and Instrumentation Market

Advanced PLC solutions are transforming industrial efficiency with precision, flexibility, and real-time control, driving innovation across pharmaceuticals, oil & gas, chemicals, metals & mining, and food & beverages. Featuring HMI, DCS, SCADA, MES, and functional safety capabilities, the

PLC segment, valued at US\$ 74.64 Bn in 2024, is set to grow at the largest CAGR of 5.52% during 2025–2032. By enabling consistent batch production, remote monitoring, and high-throughput screening with liquid handling robots, these instruments, including level, pressure, and temperature transmitters, position the Process Automation and Instrumentation Market at the forefront of industrial advancement.

Key Trends Shaping the Process Automation and Instrumentation Market: AI, IIoT, and Oil & Gas Adoption

Technological Advancements Driving Process Automation and Instrumentation Market  
AI, ML, and IIoT integration is optimizing industrial processes, enhancing efficiency, reducing costs, and accelerating growth in the Process Automation and Instrumentation Market.

Oil & Gas Leads Market Demand

The Process Automation and Instrumentation Market see strong adoption in Oil & Gas, driven by the need for enhanced operational efficiency and safety.

ABB's 2024 Strategic Brand Repositioning Strengthens Leadership in Process Automation and Instrumentation

In 2024, ABB introduced “We help industries outrun – leaner and cleaner,” reinforcing its leadership in electrification and automation. The tagline ‘Engineered to Outrun’ emphasizes ABB’s focus on enhancing industrial productivity, efficiency, and sustainability through advanced process automation and instrumentation solutions.

□ Access the full Research Description at:

[https://www.stellarmr.com/report/req\\_sample/Process-Automation-and-Instrumentation-Market/313](https://www.stellarmr.com/report/req_sample/Process-Automation-and-Instrumentation-Market/313)

North America Leads, Asia-Pacific Surges: Unveiling Growth Opportunities in the Process Automation and Instrumentation Market 2025-2032

Fuelled by large-scale domestic manufacturing, advanced IT integration, and government initiatives, North America is set to hold a significant 33.56% share by 2032 in the Process Automation and Instrumentation Market. The United States leads the charge in the fourth industrial revolution, leveraging massive data for smart production and end-to-end supply chain integration. Canada strengthens the market with expert automation and control system integrators delivering full-scale solutions. Meanwhile, the Asia-Pacific region is emerging as the fastest-growing hub, driven by diverse economies and booming industries including automotive, semiconductors, pharmaceuticals, electronics, and food processing.

Unlocking Growth Potential: Strategic Insights and Emerging Opportunities in the Process Automation and Instrumentation Market

Offering an in-depth view of industry dynamics, competitive landscape, and growth drivers, the Process Automation and Instrumentation Market report highlights key trends, emerging opportunities, and regional growth potential. Featuring insights on market leaders, Porter's Five Forces, and PESTEL analysis, it equips stakeholders with actionable strategies to navigate competition, optimize investments, and capitalize on high-growth segments.

#### Process Automation and Instrumentation Market Key Player:

##### North America:

Emerson Electric Co. (USA)  
General Electric Company (USA)  
Honeywell International Inc. (USA)  
Rockwell Automation, Inc. (USA)  
Thermo Fisher Scientific Inc. (USA)

##### Europe:

ABB Ltd. (Switzerland)  
Siemens (Germany)  
Schneider Electric (France)  
Endress+Hauser Group Services AG (Switzerland)

##### Asia-Pacific:

Yokogawa Electric Corporation (Japan)  
Mitsubishi Electric Corporation (Japan)  
Omron Corporation (Japan)  
Fuji Electric Co., Ltd. (Japan)  
Hitachi, Ltd. (Japan)  
Delta Electronics, Inc. (Taiwan)  
Hitachi Ltd (Japan)

#### Analyst Perspective:

The Process Automation and Instrumentation Market is projected to grow from US\$ 74.64 Bn in 2024 to US\$ 107.78 Bn by 2032, fueled by PLCs, DCS, SCADA, HMI, MES, and smart instruments across Oil & Gas, Pharmaceuticals, Chemicals, and Food & Beverages. AI, ML, and IIoT integration boosts efficiency, cuts costs, and drives ROI. North America leads, while Asia-Pacific grows fastest. Key players ABB, Siemens, Emerson, Honeywell, Rockwell, and Yokogawa are investing heavily in R&D, innovation, and strategic expansion, unlocking high-growth potential and sustainable industrial transformation.

## FAQ

Why is this Stellar report important?

This report provides a comprehensive outlook on the Process Automation and Instrumentation Market, highlighting growth drivers, trends, and ROI potential for strategic decision-making.

How can clients benefit from this report?

Clients gain insights on market dynamics, emerging opportunities, and competitor strategies to optimize investments and drive sustainable industrial growth.

What regions and sectors offer the highest growth potential?

North America leads with advanced IT integration, while Asia-Pacific offers rapid growth across Oil & Gas, Pharmaceuticals, Chemicals, and Food & Beverages sectors.

Related Reports:

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