

Programmable Logic Controller (PLC) Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global programmable logic controller (PLC) market size reached US\$ 14.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 20.2 Billion by 2028, exhibiting a growth rate (CAGR) of 5.38% during 2023-2028.

A programmable logic controller (PLC) is an electronic device that monitors, controls, manages and automates industrial electromechanical processes. It consists of various components, including a central processing unit (CPU), power supply processor, and input/output (I/O) sections. It is widely used to automate processes in amusement rides, light fixtures, elevators, automatic doors, road traffic signals, and machinery control on factory assembly lines. PLC is an independent system that controls and improves its operations without human supervision. It aids in increasing reliability, flexibility, faster response time, and easy troubleshooting. As a result, it finds extensive applications across automotive, chemicals and petrochemical, paper and pulp, food and beverage (F&B), and oil and gas industries.

Programmable Logic Controller (PLC) Market Trends:

The increasing demand for industrial automation across the globe is creating a positive outlook for the market. PLC systems comprise an integral part of industrial process control and factory automation that offer advanced solutions, such as security monitoring, energy consumption management, and automatic production lines. Additionally, the widespread product adoption in harsh industrial environments, due to their extreme robustness and capability of withstanding extreme temperatures, humidity,

vibration, and electrical noise, is favoring the market growth. Apart from this, the integration of machine-to-machine (M2M) communication, smart sensors, industrial cloud, and cybersecurity technologies with PLC devices to improve operational efficiency and enable seamless automation are providing an impetus to the market growth. In line with this, manufacturers are developing compact automation solutions with advanced features, cost-effectiveness, and interoperability to meet the increasing demand for improved control, secured connectivity, and enhanced performance, which is positively influencing the market growth. Other factors, including significant growth in the automotive industry, extensive research and development (R&D) activities, and the implementation of various government initiatives focusing on sustainable construction of smart cities, are supporting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global programmable logic controller (PLC) market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and end use industry.

Breakup by Type:

- Hardware and Software
 - Large PLC
 - Nano PLC
 - Small PLC
 - Medium PLC
 - Others
- Services

Breakup by End Use Industry:

- Automotive
- Energy and Utilities
- Chemical and Petrochemical
- Oil and Gas
- Pulp and Paper
- Pharmaceutical
- Water and Wastewater Treatment
- Food, Tobacco and Beverage

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., Delta Electronics Inc., Eaton Corporation plc, Emerson Electric Co., Fuji Electric Co. Ltd., Hitachi Ltd., Honeywell International Inc., Mitsubishi Electric Corporation, OMRON Corporation, Panasonic Holdings Corporation, Robert Bosch GmbH, Rockwell Automation Inc., Schneider Electric SE, Siemens AG and Toshiba Corporation.

Key Questions Answered in This Report:

How has the global programmable logic controller (PLC) market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global programmable logic controller (PLC) market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global programmable logic controller (PLC) market and who are the key players?

What is the degree of competition in the industry?

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