

Global Industrial PID Temperature Controller Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Industrial PID Temperature Controller market size was valued at US\$ 1055 million in 2024 and is forecast to a readjusted size of USD 1394 million by 2031 with a CAGR of 4.1% during review period.

Industrial PID temperature controller is a specialized electronic device used in industrial settings to regulate and control temperature accurately and precisely. PID stands for Proportional-Integral-Derivative, which are the three control parameters used in the controller's algorithm. The primary function of an industrial PID temperature controller is to maintain a desired temperature setpoint by continuously measuring the actual temperature and adjusting the control output accordingly. The controller compares the setpoint with the measured temperature and calculates the error, which represents the deviation between the two values. Based on this error, the controller adjusts its output to bring the temperature closer to the desired setpoint.

The global market for industrial PID temperature controllers has been experiencing steady growth over the years. The demand for precise temperature control in various industries has been a key driver for the market. Factors such as increasing industrial automation, stringent quality control regulations, and the need for energy-efficient operations have contributed to the market's expansion. Europe and North America has been a significant market share for industrial PID temperature controllers.

Global industrial PID temperature controllers key players include Omron, Yokogawa Electric, Honeywell, Panasonic and Schneider Electric, etc. Global top five manufacturers hold a share over 45%.

Europe is the largest producer, holds a share around 30%, followed by China and North America, with share 15% and 25%, separately. The largest market is Europe, has a share about 30%, followed by North America and Asia Pacific, with around 25% and 35% market share respectively.

In terms of product, Multi-loop industrial PID temperature controllers is the largest segment, with a share over 55%. And in terms of application, the largest application is Food & Beverage, followed by Biology & Chemical, Electrical and Electronics, Furnace and Water Treatment, etc.

Industrial automation boosts demand for industrial PID temperature controllers integrated with programmable logic controllers (PLCs) and industrial control systems. New models feature touch-screen interfaces, programmable settings, and adaptive control algorithms that allow automatic adjustment to varying process conditions, making these systems easier to use and more efficient.

This report is a detailed and comprehensive analysis for global Industrial PID Temperature Controller market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial PID Temperature Controller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial PID Temperature Controller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial PID Temperature Controller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial PID Temperature Controller market shares of main players, shipments

in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Industrial PID Temperature Controller

To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global Industrial PID Temperature Controller market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Omron, Yokogawa Electric Corporation, Honeywell, Schneider Electric, Panasonic, Gefran, ABB, Watlow, West Control Solutions, Delta Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial PID Temperature Controller market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Loop

Multiloop

Market segment by Application

Food and Beverage

Biology and Chemical

Plastic

Water Treatment

Automotive

Furnace

Semiconductor

Electrical and Electronics

Others

Major players covered

Omron

Yokogawa Electric Corporation

Honeywell

Schneider Electric

Panasonic

Gefran

ABB

Watlow

West Control Solutions

Delta Electronics

BrainChild Electronic

Durex

RKC

WIKA

Xiamen Yudian

Tenshow

Hanyoung Nux

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial PID Temperature Controller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial PID Temperature Controller, with price, sales quantity, revenue, and global market share of Industrial PID Temperature Controller from 2020 to 2025.

Chapter 3, the Industrial PID Temperature Controller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial PID Temperature Controller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Industrial PID Temperature Controller market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial PID Temperature Controller.

Chapter 14 and 15, to describe Industrial PID Temperature Controller sales channel, distributors, customers, research findings and conclusion.

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