

Global Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator market size was valued at US\$ 463 million in 2024 and is forecast to a readjusted size of USD 569 million by 2031 with a CAGR of 3.0% during review period.

A Single Loop PID Temperature Regulator is a control device used to maintain a stable temperature in a specific process or system. It utilizes the PID (Proportional-Integral-Derivative) control algorithm, which is a fundamental approach in process control systems. Unlike multi-loop regulators, a single loop PID regulator focuses on controlling the temperature in just one specific area or loop. Designed to manage one temperature control loop, it monitors the temperature in a particular zone or piece of equipment and adjusts the heating or cooling input to maintain the desired setpoint.

Global Single Loop PID temperature regulators key players include Omron, Yokogawa Electric, Honeywell, Panasonic and Schneider Electric, etc. Global top five manufacturers hold a share over 40%.

Europe is the largest producer, holds a share around 25%, followed by China and North America, with share 15% and 20%, separately. The largest market is Asia Pacific, has a share about 35%, followed by North America and Europe, with around 25% and 30% market share respectively.

In terms of application, the largest application is Food & Beverage, followed by Biology & Chemical, Electrical and Electronics, Furnace and Water Treatment, etc.

Modern single loop PID controllers come with advanced digital interfaces, including

touchscreens and intuitive user interfaces, making them easier to configure and monitor. This trend improves user experience and operational efficiency. Single loop PID controllers help optimize energy usage by providing precise temperature control, which contributes to overall energy savings and sustainability.

This report is a detailed and comprehensive analysis for global Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator
- 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 Single Loop PID Temperature Regulator

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, Inc, etc.

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

Market Segmentation

Single Loop PID Temperature Regulator 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

1/32 DIN Size

1/16 DIN Size

1/8 DIN Size

1/4 DIN Size

Market segment by Application

Food & Beverage

Biology & 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, Inc

BrainChild Electronic

Durex

RKC

WIKA

Xiamen Yudian

NOVUS Automation

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 Single Loop PID Temperature Regulator product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator 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 Single Loop PID Temperature Regulator.

Chapter 14 and 15, to describe Single Loop PID Temperature Regulator sales channel, distributors, customers, research findings and conclusion.

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