

# Global PID Temperature Regulators Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global PID Temperature Regulators market size was valued at USD 868.2 million in 2023 and is forecast to a readjusted size of USD 1769.6 million by 2030 with a CAGR of 10.7% during review period.

PID Temperature Regulators is a control loop mechanism employing feedback that is widely used in industrial control systems and a variety of other applications requiring continuously modulated control. The temperature controller takes an input from a temperature sensor and has an output that is connected to a control element. A PID controller continuously calculates an error value  $e(t)$  as the difference between a desired setpoint (SP) and a measured process variable (PV) and applies a correction based on proportional, integral, and derivative terms (denoted P, I, and D respectively).

Global main manufacturers of PID temperature regulators include Omron, Yokogawa Electric Corporation and Honeywell, etc. The top three players hold a share about 33%. Europe is the largest producer, holds a share around 27%, followed by China and North America, with share 23% and 22%, separately. The largest market is Europe, has a share about 31%, followed by North America and China, with around 24% and 16% market share respectively.

The Global Info Research report includes an overview of the development of the PID Temperature Regulators industry chain, the market status of Food & Beverage (Single Loop PID Temperature Regulators, Multi-loop PID Temperature Regulators), Biology & Chemical (Single Loop PID Temperature Regulators, Multi-loop PID Temperature Regulators), and key enterprises in developed and developing market, and analysed the

cutting-edge technology, patent, hot applications and market trends of PID Temperature Regulators.

Regionally, the report analyzes the PID Temperature Regulators markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global PID Temperature Regulators market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the PID Temperature Regulators market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the PID Temperature Regulators industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Single Loop PID Temperature Regulators, Multi-loop PID Temperature Regulators).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the PID Temperature Regulators market.

**Regional Analysis:** The report involves examining the PID Temperature Regulators market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the PID Temperature Regulators market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to PID Temperature Regulators:

**Company Analysis:** Report covers individual PID Temperature Regulators manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards PID Temperature Regulators. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Food & Beverage, Biology & Chemical).

**Technology Analysis:** Report covers specific technologies relevant to PID Temperature Regulators. It assesses the current state, advancements, and potential future developments in PID Temperature Regulators areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the PID Temperature Regulators market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

PID Temperature Regulators market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Single Loop PID Temperature Regulators

Multi-loop PID Temperature Regulators

### 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

Eurotherm

Jumo

Gefran

AE Energy

Watlow

West Control Solutions

Delta Electronics, Inc

BrainChild Electronic Co., Ltd

Fuji

RKC

WIKA

Xiamen Yudian

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 PID Temperature Regulators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PID Temperature Regulators, with price, sales, revenue and global market share of PID Temperature Regulators from 2019 to 2024.

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

Chapter 4, the PID Temperature Regulators breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and PID Temperature Regulators market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 PID Temperature Regulators.

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

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