

# Global PID Temperature Controller Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on PID Temperature Controller competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global PID Temperature Controller sales reached approximately 9,948 K Units, with an average global market price of around 110 US\$/Unit. PID temperature controller is an industrial device that uses a proportional-integral-derivative (PID) algorithm to automatically regulate and maintain temperature within a specified range. It receives input from a temperature sensor, compares it with a setpoint, and adjusts the output to a heating or cooling element accordingly. The device typically consists of a microcontroller, control circuit, display interface, and sensor interface. Upstream in the supply chain, key components include thermocouples, RTD sensors, semiconductors, display modules, PCBs, and casings. Major upstream suppliers provide electronic components, industrial sensors, and embedded control chips. Downstream customers include industrial automation companies, machinery manufacturers, HVAC system integrators, food processing equipment producers, plastic and chemical processing plants, and laboratory equipment suppliers. Global PID Temperature Controller key players include Omron, Yokogawa Electric, Honeywell, Panasonic and Schneider Electric, etc. Global top five manufacturers hold a share around 47%. Europe is the largest producer, holds a share around 30%, followed by China and North America, with share 17% and 24%, separately. The largest market is Europe, has a share about 30%, followed by North America and Asia Pacific, with around 23% and 37% market share respectively. In terms of product, Multi-loop PID temperature regulators is the largest segment, with a share over 56%. And in terms of application, the largest application is Food & Beverage, followed by Biology & Chemical, Electrical and Electronics, Furnace and Water Treatment, etc. With the advancement of smart manufacturing, Industry 4.0,

and energy management, the demand for temperature control accuracy, stability, and intelligence continues to increase. This has driven the widespread application of PID controllers in semiconductor manufacturing, chemical processing, food processing, plastic molding, metallurgy, and new energy equipment. Traditional PID controllers are gradually evolving towards intelligence, modularization, and digitalization. Incorporating the data analysis capabilities of the Internet of Things, artificial intelligence, and cloud platforms, they enable remote monitoring and predictive maintenance, improving equipment efficiency and energy management.

The global PID Temperature Controller market size was estimated at USD 1094.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global PID Temperature Controller market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global PID Temperature Controller market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the PID Temperature Controller market.

### **Global PID Temperature Controller Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-

user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

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 Segmentation (by Type)**

Single Loop Controller  
Multi-loop Controller

### **Market Segmentation (by Application)**

Food and Beverage  
Biology and Chemical  
Plastic

Water Treatment  
Automotive  
Furnace  
Semiconductor  
Electrical and Electronics  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the PID Temperature Controller Market  
Overview of the regional outlook of the PID Temperature Controller Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future

development potential, and so on. It offers a high-level view of the current state of the PID Temperature Controller Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of PID Temperature Controller, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of PID Temperature Controller
- 1.2 Key Market Segments
  - 1.2.1 PID Temperature Controller Segment by Type
  - 1.2.2 PID Temperature Controller Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 PID TEMPERATURE CONTROLLER MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global PID Temperature Controller Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global PID Temperature Controller Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 PID TEMPERATURE CONTROLLER MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global PID Temperature Controller Product Life Cycle
- 3.3 Global PID Temperature Controller Sales by Manufacturers (2020-2025)
- 3.4 Global PID Temperature Controller Revenue Market Share by Manufacturers (2020-2025)
- 3.5 PID Temperature Controller Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global PID Temperature Controller Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 PID Temperature Controller Market Competitive Situation and Trends
  - 3.8.1 PID Temperature Controller Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest PID Temperature Controller Players Market Share by Revenue

### 3.8.3 Mergers & Acquisitions, Expansion

## **4 PID TEMPERATURE CONTROLLER INDUSTRY CHAIN ANALYSIS**

### 4.1 PID Temperature Controller Industry Chain Analysis

### 4.2 Market Overview of Key Raw Materials

### 4.3 Midstream Market Analysis

### 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF PID TEMPERATURE CONTROLLER MARKET**

### 5.1 Key Development Trends

### 5.2 Driving Factors

### 5.3 Market Challenges

### 5.4 Industry News

#### 5.4.1 New Product Developments

#### 5.4.2 Mergers & Acquisitions

#### 5.4.3 Expansions

#### 5.4.4 Collaboration/Supply Contracts

### 5.5 PEST Analysis

#### 5.5.1 Industry Policies Analysis

#### 5.5.2 Economic Environment Analysis

#### 5.5.3 Social Environment Analysis

#### 5.5.4 Technological Environment Analysis

### 5.6 Global PID Temperature Controller Market Porter's Five Forces Analysis

#### 5.6.1 Global Trade Frictions

#### 5.6.2 U.S. Tariff Policy ? April 2025

#### 5.6.3 Global Trade Frictions and Their Impacts to PID Temperature Controller Market

### 5.7 ESG Ratings of Leading Companies

## **6 PID TEMPERATURE CONTROLLER MARKET SEGMENTATION BY TYPE**

### 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

### 6.2 Global PID Temperature Controller Sales Market Share by Type (2020-2025)

### 6.3 Global PID Temperature Controller Market Size by Type (2020-2025)

### 6.4 Global PID Temperature Controller Price by Type (2020-2025)

## **7 PID TEMPERATURE CONTROLLER MARKET SEGMENTATION BY**

## **APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global PID Temperature Controller Market Sales by Application (2020-2025)
- 7.3 Global PID Temperature Controller Market Size (M USD) by Application (2020-2025)
- 7.4 Global PID Temperature Controller Sales Growth Rate by Application (2020-2025)

## **8 PID TEMPERATURE CONTROLLER MARKET SALES BY REGION**

- 8.1 Global PID Temperature Controller Sales by Region
  - 8.1.1 Global PID Temperature Controller Sales by Region
  - 8.1.2 Global PID Temperature Controller Sales Market Share by Region
- 8.2 Global PID Temperature Controller Market Size by Region
  - 8.2.1 Global PID Temperature Controller Market Size by Region
  - 8.2.2 Global PID Temperature Controller Market Size by Region
- 8.3 North America
  - 8.3.1 North America PID Temperature Controller Sales by Country
  - 8.3.2 North America PID Temperature Controller Market Size by Country
  - 8.3.3 U.S. Market Overview
  - 8.3.4 Canada Market Overview
  - 8.3.5 Mexico Market Overview
- 8.4 Europe
  - 8.4.1 Europe PID Temperature Controller Sales by Country
  - 8.4.2 Europe PID Temperature Controller Market Size by Country
  - 8.4.3 Germany Market Overview
  - 8.4.4 France Market Overview
  - 8.4.5 U.K. Market Overview
  - 8.4.6 Italy Market Overview
  - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
  - 8.5.1 Asia Pacific PID Temperature Controller Sales by Region
  - 8.5.2 Asia Pacific PID Temperature Controller Market Size by Region
  - 8.5.3 China Market Overview
  - 8.5.4 Japan Market Overview
  - 8.5.5 South Korea Market Overview
  - 8.5.6 India Market Overview
  - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America PID Temperature Controller Sales by Country
- 8.6.2 South America PID Temperature Controller Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa PID Temperature Controller Sales by Region
  - 8.7.2 Middle East and Africa PID Temperature Controller Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 PID TEMPERATURE CONTROLLER MARKET PRODUCTION BY REGION**

- 9.1 Global Production of PID Temperature Controller by Region(2020-2025)
- 9.2 Global PID Temperature Controller Revenue Market Share by Region (2020-2025)
- 9.3 Global PID Temperature Controller Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America PID Temperature Controller Production
  - 9.4.1 North America PID Temperature Controller Production Growth Rate (2020-2025)
  - 9.4.2 North America PID Temperature Controller Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe PID Temperature Controller Production
  - 9.5.1 Europe PID Temperature Controller Production Growth Rate (2020-2025)
  - 9.5.2 Europe PID Temperature Controller Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan PID Temperature Controller Production (2020-2025)
  - 9.6.1 Japan PID Temperature Controller Production Growth Rate (2020-2025)
  - 9.6.2 Japan PID Temperature Controller Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China PID Temperature Controller Production (2020-2025)
  - 9.7.1 China PID Temperature Controller Production Growth Rate (2020-2025)
  - 9.7.2 China PID Temperature Controller Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

## 10.1 Omron

- 10.1.1 Omron Basic Information
- 10.1.2 Omron PID Temperature Controller Product Overview
- 10.1.3 Omron PID Temperature Controller Product Market Performance
- 10.1.4 Omron Business Overview
- 10.1.5 Omron SWOT Analysis
- 10.1.6 Omron Recent Developments

## 10.2 Yokogawa Electric Corporation

- 10.2.1 Yokogawa Electric Corporation Basic Information
- 10.2.2 Yokogawa Electric Corporation PID Temperature Controller Product Overview
- 10.2.3 Yokogawa Electric Corporation PID Temperature Controller Product Market Performance
- 10.2.4 Yokogawa Electric Corporation Business Overview
- 10.2.5 Yokogawa Electric Corporation SWOT Analysis
- 10.2.6 Yokogawa Electric Corporation Recent Developments

## 10.3 Honeywell

- 10.3.1 Honeywell Basic Information
- 10.3.2 Honeywell PID Temperature Controller Product Overview
- 10.3.3 Honeywell PID Temperature Controller Product Market Performance
- 10.3.4 Honeywell Business Overview
- 10.3.5 Honeywell SWOT Analysis
- 10.3.6 Honeywell Recent Developments

## 10.4 Schneider Electric

- 10.4.1 Schneider Electric Basic Information
- 10.4.2 Schneider Electric PID Temperature Controller Product Overview
- 10.4.3 Schneider Electric PID Temperature Controller Product Market Performance
- 10.4.4 Schneider Electric Business Overview
- 10.4.5 Schneider Electric Recent Developments

## 10.5 Panasonic

- 10.5.1 Panasonic Basic Information
- 10.5.2 Panasonic PID Temperature Controller Product Overview
- 10.5.3 Panasonic PID Temperature Controller Product Market Performance
- 10.5.4 Panasonic Business Overview
- 10.5.5 Panasonic Recent Developments

## 10.6 Gefran

- 10.6.1 Gefran Basic Information
- 10.6.2 Gefran PID Temperature Controller Product Overview
- 10.6.3 Gefran PID Temperature Controller Product Market Performance
- 10.6.4 Gefran Business Overview

- 10.6.5 Gefran Recent Developments
- 10.7 ABB
  - 10.7.1 ABB Basic Information
  - 10.7.2 ABB PID Temperature Controller Product Overview
  - 10.7.3 ABB PID Temperature Controller Product Market Performance
  - 10.7.4 ABB Business Overview
  - 10.7.5 ABB Recent Developments
- 10.8 Watlow
  - 10.8.1 Watlow Basic Information
  - 10.8.2 Watlow PID Temperature Controller Product Overview
  - 10.8.3 Watlow PID Temperature Controller Product Market Performance
  - 10.8.4 Watlow Business Overview
  - 10.8.5 Watlow Recent Developments
- 10.9 West Control Solutions
  - 10.9.1 West Control Solutions Basic Information
  - 10.9.2 West Control Solutions PID Temperature Controller Product Overview
  - 10.9.3 West Control Solutions PID Temperature Controller Product Market Performance
  - 10.9.4 West Control Solutions Business Overview
  - 10.9.5 West Control Solutions Recent Developments
- 10.10 Delta Electronics
  - 10.10.1 Delta Electronics Basic Information
  - 10.10.2 Delta Electronics PID Temperature Controller Product Overview
  - 10.10.3 Delta Electronics PID Temperature Controller Product Market Performance
  - 10.10.4 Delta Electronics Business Overview
  - 10.10.5 Delta Electronics Recent Developments
- 10.11 BrainChild Electronic
  - 10.11.1 BrainChild Electronic Basic Information
  - 10.11.2 BrainChild Electronic PID Temperature Controller Product Overview
  - 10.11.3 BrainChild Electronic PID Temperature Controller Product Market Performance
  - 10.11.4 BrainChild Electronic Business Overview
  - 10.11.5 BrainChild Electronic Recent Developments
- 10.12 Durex
  - 10.12.1 Durex Basic Information
  - 10.12.2 Durex PID Temperature Controller Product Overview
  - 10.12.3 Durex PID Temperature Controller Product Market Performance
  - 10.12.4 Durex Business Overview
  - 10.12.5 Durex Recent Developments

## 10.13 RKC

10.13.1 RKC Basic Information

10.13.2 RKC PID Temperature Controller Product Overview

10.13.3 RKC PID Temperature Controller Product Market Performance

10.13.4 RKC Business Overview

10.13.5 RKC Recent Developments

## 10.14 WIKA

10.14.1 WIKA Basic Information

10.14.2 WIKA PID Temperature Controller Product Overview

10.14.3 WIKA PID Temperature Controller Product Market Performance

10.14.4 WIKA Business Overview

10.14.5 WIKA Recent Developments

## 10.15 Xiamen Yudian

10.15.1 Xiamen Yudian Basic Information

10.15.2 Xiamen Yudian PID Temperature Controller Product Overview

10.15.3 Xiamen Yudian PID Temperature Controller Product Market Performance

10.15.4 Xiamen Yudian Business Overview

10.15.5 Xiamen Yudian Recent Developments

## 10.16 Tenshow

10.16.1 Tenshow Basic Information

10.16.2 Tenshow PID Temperature Controller Product Overview

10.16.3 Tenshow PID Temperature Controller Product Market Performance

10.16.4 Tenshow Business Overview

10.16.5 Tenshow Recent Developments

## 10.17 Hanyoung Nux

10.17.1 Hanyoung Nux Basic Information

10.17.2 Hanyoung Nux PID Temperature Controller Product Overview

10.17.3 Hanyoung Nux PID Temperature Controller Product Market Performance

10.17.4 Hanyoung Nux Business Overview

10.17.5 Hanyoung Nux Recent Developments

## **11 PID TEMPERATURE CONTROLLER MARKET FORECAST BY REGION**

11.1 Global PID Temperature Controller Market Size Forecast

11.2 Global PID Temperature Controller Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe PID Temperature Controller Market Size Forecast by Country

11.2.3 Asia Pacific PID Temperature Controller Market Size Forecast by Region

11.2.4 South America PID Temperature Controller Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of PID Temperature Controller by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global PID Temperature Controller Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of PID Temperature Controller by Type (2026-2035)

12.1.2 Global PID Temperature Controller Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of PID Temperature Controller by Type (2026-2035)

12.2 Global PID Temperature Controller Market Forecast by Application (2026-2035)

12.2.1 Global PID Temperature Controller Sales (K Units) Forecast by Application

12.2.2 Global PID Temperature Controller Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global PID Temperature Controller Market Size by Type (M USD)

Table 4. Global PID Temperature Controller Market Size by Application

Table 5. PID Temperature Controller Market Size Comparison by Region (M USD)

Table 6. Global PID Temperature Controller Sales (K Units) by Manufacturers  
(2020-2025)

Table 7. Global PID Temperature Controller Sales Market Share by Manufacturers  
(2020-2025)

Table 8. Global PID Temperature Controller Revenue (M USD) by Manufacturers  
(2020-2025)

Table 9. Global PID Temperature Controller Revenue Share by Manufacturers  
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in PID  
Temperature Controller as of 2025)

Table 11. Global Market PID Temperature Controller Average Price (USD/Unit) of Key  
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global PID Temperature Controller Manufacturers Market Concentration  
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. PID Temperature Controller Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading  
Countries

Table 26. Global PID Temperature Controller Sales by Type (K Units)

Table 27. Global PID Temperature Controller Market Size by Type (M USD)

- Table 28. Global PID Temperature Controller Sales (K Units) by Type (2020-2025)
- Table 29. Global PID Temperature Controller Sales Market Share by Type (2020-2025)
- Table 30. Global PID Temperature Controller Market Size (M USD) by Type (2020-2025)
- Table 31. Global PID Temperature Controller Market Share by Type (2020-2025)
- Table 32. Global PID Temperature Controller Price (USD/Unit) by Type (2020-2025)
- Table 33. Global PID Temperature Controller Sales (K Units) by Application
- Table 34. Global PID Temperature Controller Market Size by Application
- Table 35. Global PID Temperature Controller Sales by Application (2020-2025) & (K Units)
- Table 36. Global PID Temperature Controller Sales Market Share by Application (2020-2025)
- Table 37. Global PID Temperature Controller Market Size by Application (2020-2025) & (M USD)
- Table 38. Global PID Temperature Controller Market Share by Application (2020-2025)
- Table 39. Global PID Temperature Controller Sales Growth Rate by Application (2020-2025)
- Table 40. Global PID Temperature Controller Sales by Region (2020-2025) & (K Units)
- Table 41. Global PID Temperature Controller Sales Market Share by Region (2020-2025)
- Table 42. Global PID Temperature Controller Market Size by Region (2020-2025) & (M USD)
- Table 43. Global PID Temperature Controller Market Size by Region (2020-2025)
- Table 44. North America PID Temperature Controller Sales by Country (2020-2025) & (K Units)
- Table 45. North America PID Temperature Controller Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe PID Temperature Controller Sales by Country (2020-2025) & (K Units)
- Table 47. Europe PID Temperature Controller Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific PID Temperature Controller Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific PID Temperature Controller Market Size by Region (2020-2025) & (M USD)
- Table 50. South America PID Temperature Controller Sales by Country (2020-2025) & (K Units)
- Table 51. South America PID Temperature Controller Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa PID Temperature Controller Sales by Region

(2020-2025) & (K Units)

Table 53. Middle East and Africa PID Temperature Controller Market Size by Region (2020-2025) & (M USD)

Table 54. Global PID Temperature Controller Production (K Units) by Region(2020-2025)

Table 55. Global PID Temperature Controller Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global PID Temperature Controller Revenue Market Share by Region (2020-2025)

Table 57. Global PID Temperature Controller Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America PID Temperature Controller Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe PID Temperature Controller Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan PID Temperature Controller Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China PID Temperature Controller Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Omron Basic Information

Table 63. Omron PID Temperature Controller Product Overview

Table 64. Omron PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Omron Business Overview

Table 66. Omron SWOT Analysis

Table 67. Omron Recent Developments

Table 68. Yokogawa Electric Corporation Basic Information

Table 69. Yokogawa Electric Corporation PID Temperature Controller Product Overview

Table 70. Yokogawa Electric Corporation PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Yokogawa Electric Corporation Business Overview

Table 72. Yokogawa Electric Corporation SWOT Analysis

Table 73. Yokogawa Electric Corporation Recent Developments

Table 74. Honeywell Basic Information

Table 75. Honeywell PID Temperature Controller Product Overview

Table 76. Honeywell PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Honeywell Business Overview

Table 78. Honeywell SWOT Analysis

- Table 79. Honeywell Recent Developments
- Table 80. Schneider Electric Basic Information
- Table 81. Schneider Electric PID Temperature Controller Product Overview
- Table 82. Schneider Electric PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Schneider Electric Business Overview
- Table 84. Schneider Electric Recent Developments
- Table 85. Panasonic Basic Information
- Table 86. Panasonic PID Temperature Controller Product Overview
- Table 87. Panasonic PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Panasonic Business Overview
- Table 89. Panasonic Recent Developments
- Table 90. Gefran Basic Information
- Table 91. Gefran PID Temperature Controller Product Overview
- Table 92. Gefran PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Gefran Business Overview
- Table 94. Gefran Recent Developments
- Table 95. ABB Basic Information
- Table 96. ABB PID Temperature Controller Product Overview
- Table 97. ABB PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. ABB Business Overview
- Table 99. ABB Recent Developments
- Table 100. Watlow Basic Information
- Table 101. Watlow PID Temperature Controller Product Overview
- Table 102. Watlow PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Watlow Business Overview
- Table 104. Watlow Recent Developments
- Table 105. West Control Solutions Basic Information
- Table 106. West Control Solutions PID Temperature Controller Product Overview
- Table 107. West Control Solutions PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. West Control Solutions Business Overview
- Table 109. West Control Solutions Recent Developments
- Table 110. Delta Electronics Basic Information
- Table 111. Delta Electronics PID Temperature Controller Product Overview

- Table 112. Delta Electronics PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Delta Electronics Business Overview
- Table 114. Delta Electronics Recent Developments
- Table 115. BrainChild Electronic Basic Information
- Table 116. BrainChild Electronic PID Temperature Controller Product Overview
- Table 117. BrainChild Electronic PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. BrainChild Electronic Business Overview
- Table 119. BrainChild Electronic Recent Developments
- Table 120. Durex Basic Information
- Table 121. Durex PID Temperature Controller Product Overview
- Table 122. Durex PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Durex Business Overview
- Table 124. Durex Recent Developments
- Table 125. RKC Basic Information
- Table 126. RKC PID Temperature Controller Product Overview
- Table 127. RKC PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. RKC Business Overview
- Table 129. RKC Recent Developments
- Table 130. WIKA Basic Information
- Table 131. WIKA PID Temperature Controller Product Overview
- Table 132. WIKA PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. WIKA Business Overview
- Table 134. WIKA Recent Developments
- Table 135. Xiamen Yudian Basic Information
- Table 136. Xiamen Yudian PID Temperature Controller Product Overview
- Table 137. Xiamen Yudian PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Xiamen Yudian Business Overview
- Table 139. Xiamen Yudian Recent Developments
- Table 140. Tenshow Basic Information
- Table 141. Tenshow PID Temperature Controller Product Overview
- Table 142. Tenshow PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Tenshow Business Overview

- Table 144. Tenshow Recent Developments
- Table 145. Hanyoung Nux Basic Information
- Table 146. Hanyoung Nux PID Temperature Controller Product Overview
- Table 147. Hanyoung Nux PID Temperature Controller Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Hanyoung Nux Business Overview
- Table 149. Hanyoung Nux Recent Developments
- Table 150. Global PID Temperature Controller Sales Forecast by Region (2026-2035) & (K Units)
- Table 151. Global PID Temperature Controller Market Size Forecast by Region (2026-2035) & (M USD)
- Table 152. North America PID Temperature Controller Sales Forecast by Country (2026-2035) & (K Units)
- Table 153. North America PID Temperature Controller Market Size Forecast by Country (2026-2035) & (M USD)
- Table 154. Europe PID Temperature Controller Sales Forecast by Country (2026-2035) & (K Units)
- Table 155. Europe PID Temperature Controller Market Size Forecast by Country (2026-2035) & (M USD)
- Table 156. Asia Pacific PID Temperature Controller Sales Forecast by Region (2026-2035) & (K Units)
- Table 157. Asia Pacific PID Temperature Controller Market Size Forecast by Region (2026-2035) & (M USD)
- Table 158. South America PID Temperature Controller Sales Forecast by Country (2026-2035) & (K Units)
- Table 159. South America PID Temperature Controller Market Size Forecast by Country (2026-2035) & (M USD)
- Table 160. Middle East and Africa PID Temperature Controller Sales Forecast by Country (2026-2035) & (Units)
- Table 161. Middle East and Africa PID Temperature Controller Market Size Forecast by Country (2026-2035) & (M USD)
- Table 162. Global PID Temperature Controller Sales Forecast by Type (2026-2035) & (K Units)
- Table 163. Global PID Temperature Controller Market Size Forecast by Type (2026-2035) & (M USD)
- Table 164. Global PID Temperature Controller Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 165. Global PID Temperature Controller Sales (K Units) Forecast by Application (2026-2035)

Table 166. Global PID Temperature Controller Market Size Forecast by Application  
(2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of PID Temperature Controller
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global PID Temperature Controller Market Size (M USD), 2025-2035
- Figure 5. Global PID Temperature Controller Market Size (M USD) (2020-2035)
- Figure 6. Global PID Temperature Controller Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. PID Temperature Controller Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global PID Temperature Controller Product Life Cycle
- Figure 13. PID Temperature Controller Sales Share by Manufacturers in 2025
- Figure 14. Global PID Temperature Controller Revenue Share by Manufacturers in 2025
- Figure 15. PID Temperature Controller Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market PID Temperature Controller Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by PID Temperature Controller Revenue in 2025
- Figure 18. Industry Chain Map of PID Temperature Controller
- Figure 19. Global PID Temperature Controller Market PEST Analysis
- Figure 20. Global PID Temperature Controller Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global PID Temperature Controller Market Share by Type
- Figure 27. Sales Market Share of PID Temperature Controller by Type (2020-2025)
- Figure 28. Sales Market Share of PID Temperature Controller by Type in 2025
- Figure 29. Market Share of PID Temperature Controller by Type (2020-2025)
- Figure 30. Market Share of PID Temperature Controller by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global PID Temperature Controller Market Share by Application
- Figure 33. Global PID Temperature Controller Sales Market Share by Application (2020-2025)
- Figure 34. Global PID Temperature Controller Sales Market Share by Application in 2025
- Figure 35. Global PID Temperature Controller Market Share by Application (2020-2025)
- Figure 36. Global PID Temperature Controller Market Share by Application in 2025
- Figure 37. Global PID Temperature Controller Sales Growth Rate by Application (2020-2025)
- Figure 38. Global PID Temperature Controller Sales Market Share by Region (2020-2025)
- Figure 39. Global PID Temperature Controller Market Size by Region (2020-2025)
- Figure 40. North America PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America PID Temperature Controller Sales Market Share by Country in 2024
- Figure 43. North America PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America PID Temperature Controller Market Size by Country in 2024
- Figure 45. U.S. PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada PID Temperature Controller Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada PID Temperature Controller Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico PID Temperature Controller Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico PID Temperature Controller Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe PID Temperature Controller Sales Market Share by Country in 2024
- Figure 53. Europe PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe PID Temperature Controller Market Size by Country in 2024

Figure 55. Germany PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific PID Temperature Controller Sales and Growth Rate (K Units)

Figure 66. Asia Pacific PID Temperature Controller Sales Market Share by Region in 2024

Figure 67. Asia Pacific PID Temperature Controller Market Size by Region in 2024

Figure 68. China PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India PID Temperature Controller Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America PID Temperature Controller Sales and Growth Rate (K Units)

Figure 79. South America PID Temperature Controller Sales Market Share by Country in 2024

Figure 80. South America PID Temperature Controller Market Size and Growth Rate (M USD)

Figure 81. South America PID Temperature Controller Market Size by Country in 2024

Figure 82. Brazil PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa PID Temperature Controller Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa PID Temperature Controller Sales Market Share by Region in 2024

Figure 90. Middle East and Africa PID Temperature Controller Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa PID Temperature Controller Market Size by Region in 2024

Figure 92. Saudi Arabia PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa PID Temperature Controller Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa PID Temperature Controller Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global PID Temperature Controller Production Market Share by Region (2020-2025)

Figure 103. North America PID Temperature Controller Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe PID Temperature Controller Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan PID Temperature Controller Production (K Units) Growth Rate (2020-2025)

Figure 106. China PID Temperature Controller Production (K Units) Growth Rate (2020-2025)

Figure 107. Global PID Temperature Controller Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global PID Temperature Controller Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global PID Temperature Controller Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global PID Temperature Controller Market Share Forecast by Type (2026-2035)

Figure 111. Global PID Temperature Controller Sales Forecast by Application (2026-2035)

Figure 112. Global PID Temperature Controller Market Share Forecast by Application (2026-2035)

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