

Global PID Temperature Regulators Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G88D81ECA385EN.html>

Date: August 2026

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: G88D81ECA385EN

Abstracts

The global PID Temperature Regulators market size is expected to reach \$ 1459 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

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).

In 2025, global PID Temperature Regulator sale reached approximately 9,821 K Units, with an average global market price of around 108.83 US\$/Unit. Production capacity reached 15,000 K Units, with a gross profit margin of approximately 38%.

PID temperature controllers are closed-loop control instruments used in industrial automation systems to measure, display, compare, and regulate temperature variables. Their core algorithm consists of proportional, integral, and derivative control. By comparing setpoints with process measurements, they automatically adjust relays, solid-state relays, analog outputs, or power regulators to drive the stable operation of heating, cooling, or heat treatment equipment. Main products include single-loop panel controllers, multi-loop temperature control modules, programmable temperature controllers, temperature limit controllers, and intelligent temperature control units with communication interfaces.

Market opportunities arise from the combined effects of precision industrial thermal processes, equipment miniaturization, semiconductor manufacturing expansion, and improved energy efficiency. The EU's Chip Act emphasizes strengthening the domestic semiconductor ecosystem and supply chain resilience, while US CHIPS policies promote the development of the domestic chip industry chain through manufacturing incentives and R&D investment. These advanced manufacturing projects place higher demands on stable, traceable, and network-enabled temperature control. IEA analysis of industrial energy efficiency also points out that industrial low-temperature thermal electrification and thermal technology standards will be important directions for efficiency improvement. The challenge lies in the intense price competition in the low-end temperature controller market, with some functions being absorbed by PLCs, motion controllers, and edge control systems. Meanwhile, high-end applications demand better anti-interference capabilities, communication security, thermal inertia adaptation, algorithm self-tuning, and field service capabilities.

The upstream supply chain comprises temperature sensors, thermocouples, RTDs, MCUs, analog-to-digital converters, displays, relays, solid-state relays, power semiconductors, terminals, housings, communication chips, and industrial software. Core capabilities focus on measurement accuracy, anti-interference design, output reliability, and communication compatibility. Downstream demand covers semiconductor equipment, industrial furnaces, ovens, boilers, environmental test chambers, plastic extrusion and injection molding, food processing, packaging machinery, pharmaceutical equipment, HVAC, battery manufacturing, laboratory equipment, and hydrogen electrolysis systems.

The value of the Chinese and Asian supply chain lies in its scale, modularity, and local responsiveness. Delta Electronics temperature controllers feature built-in programmable PID, fuzzy control, and self-tuning, and support upper-level system integration. Xiamen Yudian Automation Technology claims to be a leading domestic enterprise in temperature control instruments and industrial automation measurement and control; its AI series high-performance single-loop temperature controllers employ the APID self-tuning adaptive control algorithm and support multiple communication protocols. BrainChild Electronic defines its E62 as a PID temperature controller, targeting stable temperature control and industrial applications. Shanghai Teshow Electronic Technology specializes in producing temperature, pressure, and flow control instruments, multi-loop acquisition modules, power regulators, and solid-state relays. Hanyoung Nux, RKC, and some Korean and Taiwanese manufacturers maintain strong coverage in the mid-range industrial automation channel. Global PID temperature regulators 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 PID temperature regulators 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.

The ongoing push for automation in industries like chemicals, plastics, food & beverage, and pharmaceuticals has led to an increasing need for precise temperature control. Industrial automation boosts demand for 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 studies the global PID Temperature Regulators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PID Temperature Regulators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PID Temperature Regulators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PID Temperature Regulators total production and demand, 2021-2032, (K Units)

Global PID Temperature Regulators total production value, 2021-2032, (USD Million)

Global PID Temperature Regulators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PID Temperature Regulators consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PID Temperature Regulators domestic production, consumption, key domestic manufacturers and share

Global PID Temperature Regulators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PID Temperature Regulators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PID Temperature Regulators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PID Temperature Regulators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Omron, Yokogawa Electric, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PID Temperature Regulators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PID Temperature Regulators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PID Temperature Regulators Market, Segmentation by Type:

Single Loop PID Temperature Regulators

Multi-loop PID Temperature Regulators

Global PID Temperature Regulators Market, Segmentation by Operating Principle:

Mechanical Type

Electronic Type

Global PID Temperature Regulators Market, Segmentation by Product Architecture:

Analog Type

Digital Type

Global PID Temperature Regulators Market, Segmentation by Application:

Food & Beverage

Biology & Chemical

Plastic

Water Treatment

Automotive

Furnace

Semiconductor

Electrical and Electronics

Others

Companies Profiled:

Omron

Yokogawa Electric

Honeywell

Schneider Electric

Panasonic

Gefran

ABB

Watlow

West Control Solutions

Delta Electronics

BrainChild Electronic

Durex

RKC

WIKA

Xiamen Yudian Automation Technology

Shanghai Teshow Electronic Technology

Hanyoung Nux

Key Questions Answered:

1. How big is the global PID Temperature Regulators market?
2. What is the demand of the global PID Temperature Regulators market?
3. What is the year over year growth of the global PID Temperature Regulators market?
4. What is the production and production value of the global PID Temperature Regulators market?
5. Who are the key producers in the global PID Temperature Regulators market?
6. What are the growth factors driving the market demand?

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