

# Global Single-Loop Controllers Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single-Loop Controllers market size is expected to reach \$ 1723 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

In 2025, global Single-Loop Controllers production reached approximately 9,070 k units, with an average global market price of around US\$ 150 per unit, and a gross profit margin of approximately 20%-40%. Single-Loop Controllers are standalone industrial control instruments designed to regulate one process variable such as temperature, pressure, flow, or level using PID control. They receive signals from sensors (thermocouples, RTDs, transmitters), compare to a setpoint, and output control signals to actuators like SSRs, valves, or variable frequency drives. Typically panel-mounted, they provide display, alarms, and basic data logging, and support analog inputs/outputs and communication protocols such as Modbus. They are widely used in ovens, furnaces, injection molding, packaging, chemical dosing, and small process skids where a dedicated loop controller is cost-effective. Key requirements include control accuracy, fast sampling, anti-noise capability, reliability, and easy configuration. Advanced models add auto-tuning, ramp/soak profiling, and remote monitoring.

The industrial chain of Single-Loop Controllers includes upstream components such as microcontrollers, ADC/DAC chips, display modules, power supplies, relays/SSR drivers, terminals, enclosures, and PCBs. Midstream manufacturing covers PCB assembly, firmware programming, calibration, functional testing, burn-in, and certification for EMC and safety. Downstream users include OEM machine builders, industrial end users, panel builders, and system integrators. Services include parameter setup, loop tuning support, troubleshooting, and after-sales maintenance.

The Single-Loop Controller market is mature but remains resilient because many

industrial processes still require simple, reliable, low-cost standalone control. Growth is supported by equipment replacement, incremental automation in small factories, and demand for temperature control in plastics, food, and heat-treatment applications. Buyers value stability, ease of commissioning, and compatibility with existing sensors and SSR/valve outputs. Trends include adding communication interfaces for basic connectivity, better auto-tuning algorithms, and compact controllers with brighter displays and improved usability. Price competition is strong in standard models, while premium products differentiate through higher accuracy, better noise immunity, data logging, and safety certifications for regulated industries. Constraints include gradual migration of some applications to PLC/HMI platforms and the need to maintain long-term spare parts for installed bases. Overall, the market grows steadily, with demand anchored by ubiquitous temperature and simple process control requirements.

This report studies the global Single-Loop Controllers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Loop Controllers 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 Single-Loop Controllers that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single-Loop Controllers total production and demand, 2021-2032, (K Units)

Global Single-Loop Controllers total production value, 2021-2032, (USD Million)

Global Single-Loop Controllers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single-Loop Controllers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single-Loop Controllers domestic production, consumption, key domestic manufacturers and share

Global Single-Loop Controllers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single-Loop Controllers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single-Loop Controllers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-Loop Controllers 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 EurOtherm, Yokogawa, West Control Solutions, Honeywell, ABB, AzbiGroup, OMEGA Engineering, Omron Electronics, Gefran, Watlow, 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 Single-Loop Controllers 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 Single-Loop Controllers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Single-Loop Controllers Market, Segmentation by Type:

Temperature Controller

Process Controller

Others

### Global Single-Loop Controllers Market, Segmentation by Size:

1/32 DIN Size

1/16 DIN Size

1/8 DIN Size

1/4 DIN Size

Others

### Global Single-Loop Controllers Market, Segmentation by Outputs:

Relay Outputs

Triac Outputs

Others

### Global Single-Loop Controllers Market, Segmentation by Application:

Power Plants

Oil Refineries

Petrochemical Plants

Chemical Plants

Iron and Steel Plants

Others

Companies Profiled:

EurOtherm

Yokogawa

West Control Solutions

Honeywell

ABB

AzbiGroup

OMEGA Engineering

Omron Electronics

Gefran

Watlow

Pixsys

Ascon Technologic

JUMO

Fuji Electric

RKC Instrument

**Key Questions Answered:**

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

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