

PID Temperature Controller

Precision Thermal Management for Industrial, Commercial, and Residential Applications

-199°C to 1800°C
WIDE TEMP RANGE

96 × 96 mm
STANDARD DIN SIZE

Stainless Steel
DURABLE CHASSIS

PRODUCT OVERVIEW

The Honeywell PID Temperature Controller represents the peak of reliability and high-efficiency thermal regulation. Designed to handle demanding operations across industrial, commercial, and residential environments, this semi-automatic controller utilizes an advanced Proportional-Integral-Derivative (PID) algorithm to ensure pin-point precision in process control. Built with a heavy-duty stainless steel exterior and engineered with an integrated air cooling system, it achieves long-term durability with optimal thermal performance.

KEY CAPABILITIES & FEATURES

Precision PID Control

Advanced algorithmic temperature adjustment prevents overshoots and maintains tight setpoint control for critical thermal operations.

Stainless Steel Build

Corrosion-resistant stainless steel exterior ensures mechanical protection and an aesthetically pleasing finish in harsh environments.

Integrated Air Cooling

Designed with an efficient air cooling system to maintain internal component reliability during high-duty continuous cycles.

Clear Digital Display

Features a bright LED digital display allowing clear visibility of Process Value (PV) and Setpoint Value (SV) at a glance.

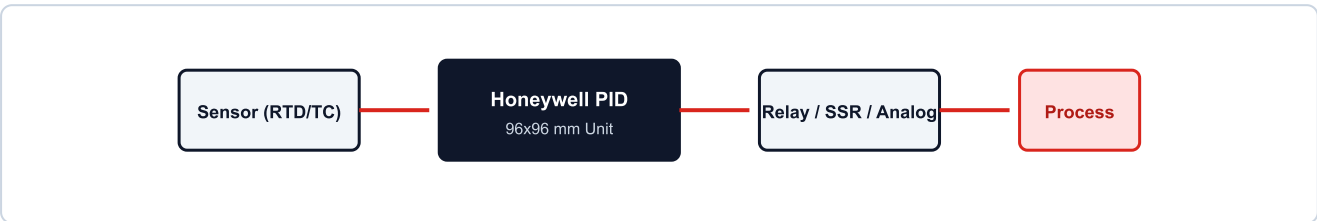
APPLICATION SCOPE

Ideal for plastic processing machinery, heat treatment furnaces, food processing units, environmental test chambers, and industrial boilers requiring consistent and dependable thermal monitoring.

TECHNICAL SPECIFICATIONS

Brand	Honeywell
Control Type	PID (Proportional-Integral-Derivative)
Temperature Range	-199°C to 1800°C
Input Type	Thermocouple, RTD, Current (mA), Voltage (mV)
Control Output Type	Relay / SSR, Analog (mA / mV)
Display Type	LED Digital Display
Operating Voltage	90–270 VAC / DC
Power Supply	230 VAC
Frequency	50 / 60 Hz
Dimensions	96 × 96 mm (Standard Front Panel)
Enclosure Material	Stainless Steel Chassis & Exterior
Cooling System	Air Cooling System
Operation Mode	Semi-Automatic

CONTROL LOOP ARCHITECTURE



FREQUENTLY ASKED QUESTIONS

- Q: What material is used to make the Honeywell PID Controller?**

A: The controller chassis and exterior housing are made of premium stainless steel for enhanced durability and aesthetics.
- Q: What type of cooling system does the controller use?**

A: It incorporates a highly efficient air cooling system designed to maintain optimal operating temperatures.
- Q: What type of control algorithm does it utilize?**

A: The unit employs a PID algorithm to ensure precise, responsive, and steady temperature regulation.
- Q: How is the controller operated?**

A: It operates via a semi-automatic user interface with intuitive control buttons and an LED digital readout.