

# Single Output PID Temperature Controller

This single-output PID temperature controller maintains stable temperatures in industrial environments. It features auto-tuning, universal TC/RTD input, and a bright LED display for clear readings.



## Product Overview

### Industrial PID Temperature Controller

The UTC-221P is a versatile single-output PID temperature controller designed for high-precision industrial, commercial, and domestic thermal management. It features a dual-display 3+3 digit LED system that allows for simultaneous monitoring of process and set values. With universal input compatibility for thermocouples and RTD sensors, along with auto-tuning functionality, this controller ensures reliable performance in heating and cooling applications.

## Core Specifications

Control Method	PID, ON-OFF, Auto-tuning
Display	3+3 Digit, 7-Segment LED
Universal Input Support	J-Type Thermocouple, K-Type Thermocouple, PT-100 RTD

## Performance Metrics

### Key Performance Metrics

<b>1 %</b> Accuracy	<b>6 Samples/Sec</b> Sample Rate	<b>120 db</b> CMRR
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## Physical and Environmental

Protection Rating	IP-65
Dimensions (H x W x D)	96 x 96 x 52 mm

## Electrical Ratings

### Relay/Signal Output

- 5A @ 230VAC/28VDC Resistive Load
- 12V DC, 30mA Signal Output
- 1C/O NO-C-NC Relay

## Advanced Settings

### PID Configuration Range

Parameter	Range
Proportional Band	0000 to 999.9
Integral Time	0000 to 999.9
Derivative Time	0000 to 999.9