

PID Temperature Controller Dual Set Up



The temperature/process control panel offers advanced control features for the most demanding temperature or process applications. Each PID Controller is enclosed in a 1/32 DIN housing. The Process Control Panel is designed with dual, 4-digit LED displays for local indication of process value and setpoint. Control methods include ON/OFF, PID, self-tune, and manual tune. PID control is supported with 64 temperature and time (ramp/soak) control actions. The dual loop output control allows simultaneous heating and cooling control. The second output can be configured as an alarm mode using one of the thirteen built-in alarm functions. RS-485 communication is standard. Up to 247 communication addresses are available with transmission speeds of 2400 to 38,400 bps. The controller also features universal input, selectable temperature units (°F, °C), selectable resolution, quick sampling rate and security protection.

Designed for Two Inputs and Two Outputs (possible to use only one)

Mounted in an aluminum enclosure with Extruded Sides

Utilize PID/Self Tune for accuracy

Staff ability to change Set Point if needed (maximum set point will be pre-set to prevent user errors)

Power output from Solid State Relays

Sturdy Rocker Style On/Off Power Switch

10' Power Cord

Equipped with EcoMate Quick disconnect terminals at the back of the enclosure to mate with CHR Inc. Heaters

SPECIFICATIONS

Inputs: Thermocouple, RTD, DC voltages or DC current

Display: Two 4-digit, 7 segment .25" H (6.35 mm) LED's. PV: red; SV: green

Accuracy: ±0.25% span, ±1 least significant digit

Supply Voltage: 100 to 240 VAC, 50/60 Hz

Power Consumption: 5 VA max

Operating Temperature: 32 to 122° F (0 to 50°C)

Memory Backup: Nonvolatile memory

Control Output Ratings: Relay: SPST, 5A@ 250 VAC resistive

Solid State Relay output – up to 25 amps @120v or 240v

Voltage pulse: 14V, 10% to -20% (max 40 mA); Current: 4 to 20 mA

Communication: RS-485 Modbus A-5-11/RTU communication protocol

Weight: 4 oz (114 g)

Agency Approvals: CE, UL, cUL

Front Panel Rating: NEMA 4X (IP66)

ACCESSORIES

SCD-SW, Conguration Software

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A-277, 250 Ohm Precision Resistor

MN-1, Mini-Node™ USB/RS-485 converter

A-600, R/C snubber

SIZE

Dual Controller Conguration: 2.11" high x 6.68" wide x 6.3" long/deep

Single Controller Conguration: 1.77" high x 4.27" wide x 6.3" long/deep

OUTPUT 1	OUTPUT 2
Voltage Pulse	Relay

INPUT TYPES	RANGE
Type K T/C	-328 to 2372° F (-200 to 1300°C)
Type J T/C	-148 to 2192° F (-100 to 1200°C)
Type T TIC	-328 to 752° F (-200 to 400°C)
Type E T/C	32 to 1112° F (0 to 600°C)
Type W T/C	-328 to 2372° F (-200 to 1300°C)
Type R T/C	32 to 3092° F (0 to 1700°C)
Type S TIC	32 to 3092° F (0 to 1700°C)
Type B T/C	212 to 3272° F (100 to 1800°C)
Type L T/C	-328 to 1562° F (-200 to 850°C)
Type U T/C	-328 to 932° F (-200 to 500°C)
Pt 100 RTD	-328 to 1112° F (-200 to 600°C)
0-50 mV	-999 to 9999
0-5 V	-999 to 9999
0-10 V	-999 to 9999
0-20 mA*	-999 to 9999
4-20 mA*	-999 to 9999

*Requires 250 Ohm Precision Resistor