

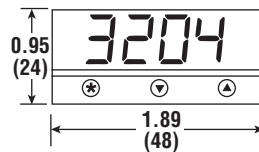
3204 1/32 DIN Temperature Controller



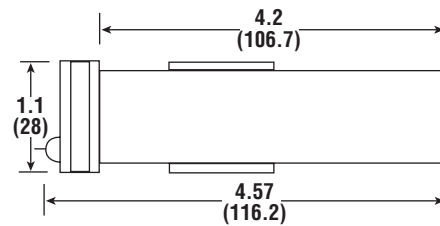
- Ultra-Compact 1/32 DIN Size
- Dual Outputs for Heat, Cool and Alarm
- User Selectable Sensor and Process Inputs
- Autotune PID
- Single Ramp/Soak
- NEMA 4X (Front Panel)
- IP66
- Large 4 Digit Display
- Program Security
- RS-232/ RS-485 Digital Communications Option



Dimensions



Front View



Side View

All Dimensions in Inches (mm)

Description

The 3204 control provides full auto-tuning PID control in a compact 1/32 DIN package, making it an excellent choice where panel space is a premium. The large 4-digit display, several temperature and process control options, a rugged design and efficient programming capabilities make the 3204 ideal for use in several demanding applications such as plastics, packaging, heat treating and life sciences. Input options include 9 different thermocouples, 100Ω Pt RTD or 0-20 or 4-20 mV or mA linear process. Each of the two outputs can be programmed as heat control, cool control or

alarm output. Select from Relay and SSR Drive output combinations. The 3204 also offers either RS-232 or RS-485 Modbus/RTU communications for remote management needs. Auto tuning functions calculate dependable PID parameters for optimal control of the process. The single ramp to setpoint feature enhances process control capability. NEMA 4X/IP66 front panel withstands harsh environments and applications where the unit might come in contact with water or corrosives.

3204 1/32 DIN Temperature Controller (*cont'd.*)

Specifications

Control Modes		Field Selectable, On/Off, PID		
Control Adjustments		Control Setpoint	Instrument Range	
		Proportional Band	25% of span, adjustable for each output	
		Automatic Reset	0.1 to 60 min. or Off	
		Rate	1-200 seconds or Off	
		Output Cycle Time	0.1-81 seconds	
		Approach Control	0.5 to 5 x Proportional Band	
Outputs				
Output #1	One Heat, Cool or Alarm Output			
	Relay	Normally open SPST contact rated 2 Amps at 250 Vac		
	SSR Drive	5 Vdc, +0, -15%, 15 mA, non isolated		
Output #2	One Heat, Cool or Alarm Output			
	Relay	Normally open SPST contact rated 1 Amps at 250 Vac		
	SSR Drive	5 Vdc, +0, -15%, 15 mA, non isolated		
Alarm Features				
Functions	Field Selectable Process, Devation, Band			
Types	Field Selectable High/Low, Inhibit on Start up, Latching			
Input Specifications				
Input Sampling	10 times per second			
Sensor Type		Range* °F	C	Accuracy
Thermocouple	J	32 to 1472	0 to 800	±0.25% of Sensor Maximum
	K	-58 to 2192	-50 to 1200	
	T	-273 to 482	-200 to 250	
	E	32 to 1112	0 to 600	"
	R	32 to 2912	0 to 1600	"
	S	32 to 2912	0 to 1600	"
	N	-58 to 2192	-50 to 1200	"
	B	32 to 3272	0 to 1800	"
RTD	L	32 to 1472	0 to 800	"
	100 Ohm Pt	-273 to 752	-200 to 400	"
Linear Voltage	0-20 mV, 4-20 mV			
Linear Amperage	0-20 mA, 4-20 mA (must use 1Ω resistor)			
Instrument Power		90-264 Vac, 50/60 Hz or 12 to 24 Vac/Vdc		
Operating Environment		32-130°F (0-50°C) with relative humidity 90% or less (non-condensing)		
Physical Specifications		1/32 DIN, 1.89 (48) x 0.95 (24) x 3.98 (102) Max. Panel Thickness 0.39 (10)		