

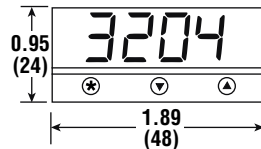
3204 1/32 DIN Temperature Controller



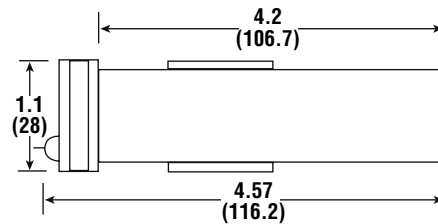
- Ultra-Compact 1/32 DIN Size
- Dual Outputs for Heat, Cool and Alarm
- User Selectable Sensor and Process Inputs
- Autotune PID
- Single Ramp/Soak
- NEMA 4X (Front Panel)
- IP66
- Large 4 Digit Display
- Program Security
- RS-232/ RS-485 Digital Communications Option



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	
	L	32 to 1472	0 to 800	
RTD	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)			

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

Ordering Information

Complete the model number using the matrix provided.

Model	3204 1/32 DIN Auto Tuning PID Controller				
3204	Compact 1/32 DIN AutoTune PID controller with the following standard features: User selectable inputs (thermocouple, RTD or 0-20, 4-20 mV or mA** linear process inputs), dual outputs for heat, cool and alarm; single ramp & soak program, latching alarm and limit control capability, with user program security levels. Also, NEMA 4X / IEC IP66 front panel; large 4-digit display. Optional features include RS-485 or RS-232 ModBus RTU digital communications. 3 year warranty. Approvals: UL, cUL, CE				
	Code Outputs 1 and 2, Control Output or Alarm				
11*	Two Relay Outputs: Output 1: 2 Amps at 250 VAC. Output 2: 1 Amp at 250 VAC. Both resistive loads				
71	Two Outputs: Output 1: Solid State Relay Drive, 5 Vdc, 15 mA. Output 2: Relay, 1 Amp at 250 VAC				
77	Two Solid State Relay Drive Outputs: 5 Vdc, 15mA (X 2)				
	Code				
0	Add to complete model number				
9	Special Configuration				
	Code	Options			
	0	None			
	1	RS-485 ModBus/RTU Digital Communications Interface			
	2	RS-232 ModBus/RTU Digital Communications Interface			
		Code	Power Supply		
		0	90-264 Vac		
		1	12-24 VDC/AC +/-20%		
3204 -	71	0	0	0	Typical Model Number

*2 Relay Output Code "11" is not available with the 12-24 VDC/AC Power supply option

**0-20 mA or 4-20 mA input signal requires 1Ω resistor. See accessories.

Stocked Items

Model	PCN
3204-11000	305090
3204-71000	305082
3204-77000	305103
3204-71001	305146
3204-77001	305162
3204-11010	305120
3204-71010	305111
3204-77010	305138
3204-11020	305189
3204-71020	305170
3204-77020	305197

Accessories

Description	PCN
Resistor, 1Ω (2% tolerance)	305630