



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
- 4 Digit Display
- Program Security
- RS-232 / RS-485 Digital Communications Option

Description

The 3204 control provides full auto-tuning PID control in a compact 1/32 DIN package, making it an excellent choice for applications where panel space is a premium. Each of the two outputs can be programmed as heat control, cool control or alarm output. Select from Relay and SSR Drive output combina-

tions. AutoTuning functions calculate dependable PID parameters for optimal control of the process. NEMA 4X front panel withstands harsh environments and applications where the unit might come in contact with water or corrosives.

Specifications

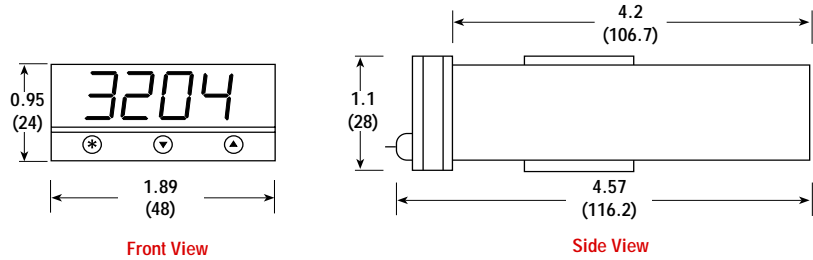
| | | | | |
|--------------------------------|--|--|--------------|---------------------------|
| Control Modes | Field Selectable, On/Off, PID | | | |
| Control Adjustments | Control Setpoint | Instrument Range | | |
| | Proportional Band | 25% of span, adjustable for each output | | |
| | Automatic 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%, 10 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%, 10 mA, non isolated | | |
| Alarm Features | Field Selectable | | | |
| Functions | Process, Deviation, Band | | | |
| Types | Field Selectable High/Low, Inhibit on Start up, Latching | | | |
| Input Specifications | | | | |
| Input Sampling | 10 times per second | | | |
| Sensor Type | | Range* °F | °C | |
| Thermocouple | J | 32-1472 | 0-800 | ± 0.25% of sensor maximum |
| | K | -58 to +2192 | -50 to +1200 | |
| | T | -273 to +482 | -200 to +250 | |
| | E | 32-1112 | 0-600 | |
| | R | 32-2912 | 0-1600 | |
| | S | 32-2912 | 0-1600 | |
| RTD | N | -58 to +2192 | -50 to +1200 | " |
| | 100 Ohm Pt | -273 to +752 | -200 to +400 | " |
| Voltage | 0-20 mV | | | |
| | 4-20 mV | | | |
| Instrument Power | 90-264 Vac, 50/60 Hz or 8-40 Vac/Vdc, 3 VA | | | |
| 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) | | | |

Single Channel
Controllers

3204

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

Dimensions



All Dimensions in Inches (mm)

Ordering Information

Complete the Model Number using the Matrix provided.

In Stock:

| Model | PCN |
|------------|--------|
| 3204-71000 | 305082 |
| 3204-11000 | 305090 |
| 3204-77000 | 305103 |
| 3204-71010 | 305111 |
| 3204-11010 | 305120 |
| 3204-77010 | 305138 |
| 3204-71001 | 305146 |
| 3204-11001 | 305154 |
| 3204-77001 | 305162 |
| 3204-71020 | 305170 |
| 3204-11020 | 305189 |
| 3204-77020 | 305197 |

| Model | 1/32 DIN Auto-Tuning PID Controller |
|-----------------|---|
| 3204 | Ultra-Compact 1/32 DIN Size, Dual Outputs for Heat, Cool and Alarm, User Selectable Sensor and Process Inputs, Autotune PID, NEMA 4X Front Panel, 4 Digit Display, Program Security |
| Code | Outputs 1 and 2, Control Output or Alarm |
| 11 | Two Relays, Output 1, 2 Amps at 250 Vac, Output 2, 1 Amp at 250 Vac |
| 71 | Solid State Relay Drive, 5 Vdc, 10mA; Relay 2 Amps at 250 Vac |
| 77 | Two Solid State Relay Drives, 5 Vdc, 10 mA |
| Code | Add to complete model number |
| 0 | Add to complete model number |
| Code | Options |
| 0 | None |
| 1 | RS-485 Digital Communications Interface |
| 2 | RS-232 Digital Communications Interface |
| Code | Power Supply |
| 0 | 90-264 Vac |
| 1 | 8-40 Vac/Vdc |
| 3204 - 71 0 1 0 | Typical Model Number |