Controls

2040 Dual Loop Controller

- Two Independent Control Channels
- Programmable Control, Alarm or Overtemp Channels
- Field Selectable Relay or SSR Drive Outputs
- Flexible Third Output, 10 Amp Relay
- Timer, Ramp/Soak and Idle/Run Functions
- Self-Tuning Using Artificial Intelligence
- ChromaSoft[™] Compatible Digital Communications



Description

The 2040 temperature controller packs the sophistication and flexibility of two microprocessor-based controllers into one compact 1/4 DIN package. Because the 2040 requires only 4 inches mounting depth, it can capably solve control challenges in the most spacelimited applications.

Applications

- · Platens and Presses
- · Furnaces and Ovens
- Temperature Control Panels
- Extruders
- Food Processing

Features

 Two independent control loops may be field programmed

Loop #1 PID Temp. Control PID Temp. Control Alarm/Overtemp Loop #2 PID Temp. Control Overtemp Control Alarm/Overtemp

programmed as J or K thermocouple, or RTD.

• 2 sensor inputs can be independently field

- 2 each 8 Amp relay control outputs, field changeable to solid state relay (SSR) drives.
- Output #3, a 10 Amp relay, can be used for alarm or control.
- Integral Timer and Event Input eliminate the need for external timers and associated wiring.
- Simple 2-Segment Ramp/Soak Program can be easily configured.
- Ramp/Soak Control functions can be activated from front panel switches or remotely activated via the event input.
- Digital Communications allows operation using ChromaSoft[™] Remote Operator Interface software, and can be networked with other Chromalox controllers. Optional RS-232, RS-422 and RS-485 digital communications are available.
- Rugged, Extruded Aluminum Housing and 4" Installation Depth



All Dimensions in Inches (mm)

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Controls

2040 Dual Loop Controller (cont'd.)

Application

The 2040's Run/Idle feature is used for a single ramp up and ramp down heating cycle, triggered by an external momentary switch or the controller's Start and Stop pushbuttons. The idle timer is set "continuous". The timers are set to ramp up, soak (at the run setpoint), and then ramp down to idle. The platen temperature remains at the idle setpoint until the external momentary switch or Start/Stop activates the program. The platen ramp to the run temperature, soak and ramps down to idle, thus completing the cycle.



Ordering Information

Chromalox®

Complete the Model Number using the Matrix provided.

In Stock:

Model	PCN
2040-11000	306384
2040-11400	306392

