



## TEMPERATURE CONTROLLER

This Temperature Controller is a full-featured tabletop controller designed for a variety of applications. It can be manually programmed to reach a desired temperature or computer controlled for sophisticated temperature profiling. The temperature controller automatically determines the best settings for optimal heating based on the thermal response of a particular system. It features two temperature sensor inputs and one low-voltage output, allowing regular or cascade operation. Cascade operation permits the output to be regulated based on two inputs from different sensors. For spectroscopy accessories with separate heater and sample thermocouples, one set point controls the sample temperature while another provides an emergency shut off at another set point. This is particularly important for high temperature applications, where the desired sample temperature is close to the upper temperature limit of the heater.

### FEATURES

- ▶ Provides accurate temperature regulation over a wide range of temperatures.
- ▶ Set point programmable from -200 to 1250°C for K-type thermocouples.
- ▶ Accepts a wide variety of thermocouples and resistive temperature detectors (RTDs).
- ▶ Integrates a state-of-the-art Watlow EZ-ZONE® dual channel controller for cascade or regular operation.
- ▶ Digital temperature readout in degrees Fahrenheit or Celsius.
- ▶ Provides a safe, low-voltage output.
- ▶ Intended for use with 24V heaters.
- ▶ Advanced integrated PID and limit controller
- ▶ Manually programmable using the integrated keypad.
- ▶ Allows ramp/soak programming with 40 total steps.
- ▶ Adaptive process control.
- ▶ On board memory for saving and restoring parameter settings
- ▶ Serial bus communication provided through an RS-485 connector.
- ▶ Free EZ-ZONE® Configurator software.
- ▶ USB/RS-485 adapter available for integrated computer control.



### ORDERING INFORMATION

Temperature Controller with USB to RS-485 Adapter.

CATALOG No.

110V input, 24V output ..... ATK-024-3

220/240V input, 24V output (CE marked) ..... ATK-024-4