

## All Flex Thermal Controller

### Model AFTC-5000 Series Closed Loop Controller

All Flex's AFTC-5000 thermal controller provides easy-to-use heater control using single-button adjustment to advance by pre-set increments. This controller is ideal for OEM's that do not have sophisticated thermal control requirements, engineers and product developers who are experimenting with thermal requirements of their design, and manufacturers that offer end-users the ability to adjust thermal levels.

The controller utilizes the input power of the heater without the need for a separate power supply. Output power to the heater will shift from full power during ramp-up to PWM (Pulse Width Modulation) during its hold state.

The AFTC-5000 is custom-programmed at All Flex with 6 specific temperature settings defined by the customer. Customers may order online (entering the desired settings during the check-out process) or by placing an order with our customer support team. Contact All Flex for models with standard settings.

- One touch single button action advances settings in pre-set increments
- One sensor included
- Operates with All Flex 10K stick-on thermistor (PN 19275), bead thermistor 10K ohm 1% (Vishay NTCLE413E2103F520L) available through distribution, or equivalent
- Power input, mounting hardware and power output lines not included. Phillips head terminal block bare wire attachment
- The LED, corresponding with the selected temp setting, flashes during thermal ramp-up and remains solid when in hold mode
- Last setting is restored if input power is interrupted
- Device suspends output power if thermistor is not connected



Terminal blocks provide discrete wire screw connection for input power, output power (to heater), and sensor.

### Key Specifications

- Nominal switching hysteresis, typically: 3°F
- Flanges extend .5" per side. .200" diameter mounting holes in flanges, 3" OC
- Physical data: Square body: 2.5" X 2.5" X 1"
- Operating voltage: 5 to 24 volts DC
- Operating current: 10 amp maximum
- Thermistor accuracy: +/- .5 F
- Thermistor range: -20 F to +250 F

### Warranty and Disclaimer

Two Year Limited Warranty. Purchasers are responsible to determine the fitness of use, the model selection, and the application of All Flex products. Above claims are general performance guidelines only. All Flex's sole responsibility under this warranty, at All Flex's option, is limited to replacement or repair, with the purchaser responsible for the cost of shipping to All Flex for service. No claims will be allowed for direct or indirect damages beyond this product.