ADVANCED LT PRO CONTROLLER

PRODUCT SHEET — TC-ALT-PRO

PRODUCT CLASSIFICATION

Automated Cooling Fan Controller (Low Voltage)

Definitions:

Definitions:	Automated Control	Fans turn on and off based on the temperature and mode selected. The fans also accelerate as the temp rises.
	Professional	The professional version features additional modes for greater function and application.

DESCRIPTION

A professional grade temperature controller for low voltage fans used primarily in audio video and other technology based cooling applications. The unit is easy to install and configure, basically 'set it and forget it' for many years to come. The variable speed control is ideal for applications where noise and effectiveness are equal concerns as the fans run at the speed necessary to provide adequate cooling.

SPECIFICATIONS

<u>General Specifications</u>

Dimensions (Unit):	3" x 1 5/16" x 3/4" (7.6 cm x 3.4 cm x 2 cm)
Construction:	ABS Black Housing w/Mounting Slots

<u>Power Specifications</u>

Power Connection:	2-Pin or 2.1mm Coax Connector (Ensure Proper Polarity)
Fan Connection:	2-Pin FastWire Connector System - Additional cables may are necessary for multiple fans and/or longer cable runs (Available Y, Tri & Extension Cables)
Sensor Type:	Remote Sensor – Measures ohms and can be extended further with only slight change in reading and function
Input Voltage:	12-13.5V DC
Current - Amperage:	Output Rated at 2 Amps (Depending on application can connect more than 2A of fans since with proper design the fans will not run at 100%)

<u>Function</u>

Fan Modes:	Mode 1 = 70°F, Mode 2 = 80°F, 3=90°F, 4=100°F, 5=110°F
Alarm Modes:	Mode 1 = Off, Mode 2 = 115°F, Mode 3 = 125°F
Fan Speed Variance:	Fans On at 50% Speed, 100% at +10°F

INSTALLATION OVERVIEW

The controller is installed inline utilizing a 12V DC power supply plugged into the controller which in turn connects to the fans. When connecting, ensure polarity is correct by aligning on the cable ends, Tip to + and that the connection is secure.

Place the sensor in the area where hot air will accumulate but not directly on equipment as the fans may ramp up too fast and/or never turn off.

COMPATIBILITY

This unit is designed to be used with the majority of Cool Components products (exception inline Duct Fans) and should be compatible with other 12V DC fans. This unit is voltage, not PWM control. Compatibility includes use with HiFlo products, SlimSix, Spot, DUO, Ceiling Vent & Grid System, Universal Coolers, Rack Side Coolers...

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Installation

Determine the best location for the unit which is determined by accessibility for the power supply, the location of the fan unit/s and area seeking to cool. Do not place the controller or sensor on a component, it is best to screw, zip tie, or velcro to the side of the cabinet or rack and mount the sensor so it also is not in contact with equipment. When venting equipment (exhausting air out of a cabinet or enclosure) it may desirable to put the sensor in the airflow pathway of the fan as that is a good measure of the ambient temperature in the closet.

Once location is determined, power the unit with the power supply, some controllers come with a 2-pin power connector while other's come with 2.1mm coax, for the 2-pin ensure to Align to + on the connector ends and for the 2.1 Coax, the center pin is +. The unit is polarity protected so mis-wiring will not damage the unit but it will not operate with incorrect polarity.

Once the unit is powered it can be programmed following the instructions below and fans can be plugged in at any point but also ensuring proper polarity. Multiple fans up to 2.5A can be connected using Y or Tri-Cables sold separately.

Programming

To program the unit, first apply power to the unit.

For programming the fan mode, press the programming button once and the unit will beep once, this indicates it is in programming mode. Within 5 seconds press the button corresponding to the desired mode, for example 3 times for Mode 3 (fans on at 90°F). Once desired mode is input wait and the unit will beep to confirm that selected mode (3 beeps for mode 3 for example).

For Alarm mode, press and hold the programming button for 3 seconds, the unit will beep, press for desired Mode. 1 press for Mode 1 (Off), 2 presses Mode 2 (Alarm at 115°F), 3 presses Mode 3 (Alarm at 125°F).

Note: Alarm automatically resets when temperature drops below the set point.

Troubleshooting

The product is typically very reliable and has gone through strict quality control testing. Even with the best processes, failures do still occur so first, ensure the unit is properly connected especially upon installation or servicing the system. Second is to check the power supply by reading the voltage with a voltmeter or bypass the controller and connect directly to the fan unit. If the fans still do not operate, then the power supply is most likely defective.

If require additional assistance, please email *support@coolcomponents.com*

Longevity & Warranty Information

This unit was designed to avoid early failure by not including unnecessary features and components. It is produced with quality and longevity in mind.

This product is warranted for 1 year with proof of purchase from an authorized dealer, distributor, retailer. The warranty does not cover units that have been modified, damaged, or used in a way inconsistent with their intended purpose.

For warranty information or to file a claim, please email *rainfo@coolcomponents.com*