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5R7-573 THERMOELECTRIC CONTROLLER

This open board temperature controller is specifically designed with a proportional integral control algorithm to provide the most precise control to thermoelectric (Peltier effect) modules at the most economical price.

The H bridge control provides a seamless transition between heating and cooling, eliminating dead spots. A red LED for heat and green LED for cooling indicate mode. Pulse Width Modulation controls the power level in the thermoelectric module at a base frequency of 900Hz. Power resolution is one of ± 255 steps in the load circuit control.

FEATURES

- Solid State H-Bridge Control
- Bi-Directional Control (Seamless Transition)
 - Red LED Heating Mode
 - Green LED Cooling Mode
- Proportional Integral control algorithm
- Pulse width modulated output
- TTL to USB communication via optional OI-TTL-Cable.
- Support and Digital control through included GUI & DLL.

SPECIFICATIONS

- Input Voltage: 6 to 28 VDC
- Output Voltage: 0 to 28 VDC
- Load Current: 0.1 to 12.5 A
- Temperature Resolution: 0.1°C
- Temperature Range: -40 to 250°C
- Control Stability: ± 0.1°C
- 450 W output power control
- 900 Hz base frequency pulse width modulated output
- Adjustable Bandwidth, Integral & Derivative settings (PID) via OI-TTL-Cable and supplied software.
- 1.2" H x 2.7" W x 2.9" D
- Customer Drawing: CDR-00426



OPTIONAL "L" mounting plate for easy installation 1.36" H X 3.5" long



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ACCESSORIES

- DISP-573 Remote LED Display.
- 5R7-573A Remote Set Potentiometers.
- Sensor Family:
 - TR67 (15K @ 25°C) ± 1°C, -20 to 100°C
 - TR136 (15K @ 25°C) ± 0.1°C, -20 to 100°C
 - TR91 (10K @ 25°C) ± 1°C, -40 to 150°C
 - TR104 (50K @ 25°C) ± 1°C, 0 to 150°C
 - TR141 (5K @ 25°C) ± 1°C, -40 to 90°C
 - TR165 (231.5K @ 25°C) ± 1°C, 25 to 250°C
 - OI-TTL-Cable TTL to USB serial communications
 - "L" Shape Mounting Plate



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RoHS Compliant