

WTC3293-14001 2.2A Temperature Controller

- Display Set or Actual Temp in °C
- LED indicates over / under / on temp
- Includes cable, heatsink, fan
- Onboard enable / disable switch
- Onboard setpoint adjust
- Drive $\pm 2.2\text{A}$ of TEC or RH current
- Single supply operation: +7, +9 or +12V
- Heat and cool current limits
- Ultrastable PI control
- Small size: 2.25" x 2.7" x 2.7"



The **WTC3293-14001** is a mini-instrument temperature controller with a temperature (not resistance) display and onboard adjustments.

Wrapped around the precision [WTC3243](#) temperature controller, it is configured for use with a [TCS610](#) thermistor. Wire your thermoelectric cooler and thermistor to the board with the cable provided. Add the appropriate DC power supply and indicate the input voltage on the jumper. With the output disabled, adjust the on-board 12-turn trimpot and watch the setpoint temperature change on the 4-digit display. Switch to Actual temperature and display your thermistor temperature. Watch the LED tree to see “over/under temperature” or “stable at setpoint” status. Enable the output current and

The green LED on the In-Range indicator lights when actual temperature is within 0.05° C of the setpoint. If the actual temperature exceeds the setpoint, the upper LED will light. If it is below the setpoint temperature, the lower LED will light.

The **WTC3293-14001** has been designed to work with various thermoelectrics driving up to ± 2.2 Amps. It operates with +7 V, +9 V, or +12 V input voltage.

Free, effective, and responsive technical support is available to simplify integration of Wavelength products into your OEM design. Standard product can be easily modified to meet your application requirements.