



TC 96 Temperature Controller



The TC 96 is an entry level yet very powerful μ P based dual display controller that offers many advanced features. This controller can be ordered with any of our T600 series thermal platforms or can replace aging analog or digital controllers in legacy thermal platform systems.

With a single sensor input and heat/cool outputs the TC 96 can be used to precisely control virtually any thermal platform or heat/cool system. The TC 96 has a 10Hz input sampling rate, programmable ramp to set point, two 8 step ramp and soak profiles, serial EIA-232 communications and an optional IEEE-488 GPIB interface.

The TC 96 also includes a powerful auto-tuning feature for optimizing the PID variables. The case is easily integrated into an instrument rack due to it's standard 2U height (3.5") and half rack width. It also has a tilting bale for convenient bench-top use. An electrically isolated input with open loop break protection insures precise temperature readings and protects the instrument from stray voltages. The heat and cool outputs are powered by zero-crossing optically isolated solid state relays, eliminating transients during switching of the load and providing exceptional reliability and protection to the instrument.



Standard Features:

- Programmable ramp to set point
- Dual display of set point and temperature
- Automatic PID tuning
- Fast 10 Hz input sampling
- 0.1% calibration accuracy
- μ P based digital control
- Two 8 step ramp & soak profiles
- Serial EIA-232 communication interface

Powered by your choice of:
110/120 50/60Hz or
230/240 50/60Hz



Optional IEEE-488 GPIB interface.

Standard Serial EIA-232 communication interface.

Operator Interface	Dual 4 digit LED (upper display 10.2mm lower display 6.2mm)
Input 1	Thermocouple or RTD
Output 1	Heat
Output 2	Cool
Communications	EIA-232 w/Modbus RTU protocol and/or IEEE-488 GPIB
Profiles	2 files, 8 steps each or 1 file, 16 steps, up to 255 repeat cycles
EIA-232 Connector	Standard 9 pin "D" type