



RTI's DirecTemp-1C Custom Thermal Controller and TEC/Air Head

PRODUCT OVERVIEW - CONTROLLER:

The RTI One Channel Thermal Management Controller DirecTemp-1C Is an advanced controller unit for use in RTI thermal solutions incorporating either Hybrid TEC/Air or Hybrid TEC/Water cooling heads. This compact benchtop controller Incorporates a PWM Capable PID temperature controller with a power supply and H-Bridge for driving TEC heads. The controller can be customized with an optional Temperature Monitor channel and the connector can be wired for a variety of head configurations. When paired with the appropriate thermal head and possibly a water chilling system, the controller can enable a very wide range of heating and cooling applied directly to the device under test.

APPLICATIONS:

The RTI DirecTemp-1C is a versatile cornerstone for a range of thermal control projects in the IC test world. The system can be configured to work with any of RTI's standard thermal heads or used with our fully custom projects. Our controller can also be used with your thermal heads and we can configure it with a connector and power supply to match your exact needs. The small benchtop form factor leaves plenty of bench space for the other parts of your test setup.

CONTROLLER FEATURES:

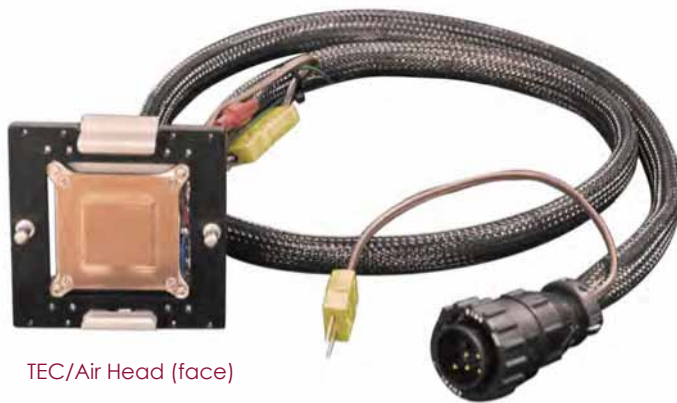
- ◆ Small Footprint - W: 8.5" L: 13" H: 6"
- ◆ Serial interface for PC control or control by system
- ◆ Customizable for a range of applications
- ◆ High performance controller with advanced features
- ◆ High power H bridge with overcurrent protection
- ◆ 12V, 24V, and custom power source capability for a wider range of thermal heads and applications
- ◆ Supports Hybrid TEC/Water or TEC/Air thermal heads
- ◆ Supports custom thermal fixture projects

DiracTemp-1C THERMAL CONTROLLER SPECIFICATIONS:

PID Controller Specs	
Control	PID, AutoTune, open loop control
Output	PWM, 1Khz, Bi-Directional
Input	Thermocouple J, K, T, RTD, Thermistor
Resolution	0.1C
Sample Rate	10Hz
Alarms	2
External Programming	Yes
PC application	Yes
Peripheral Interfaces	RS232, RS485-Modbus RTU or USB
Output Driver Specs	
Overcurrent protection	Yes
Over temperature Protection	Yes
Power Supply Options	12V, 24V, Custom
General Specifications	
Dimensions	8.5"x13"x6"
Weight	Depends on configuration, Min 12 lbs
Power Requirements	110VAC, 50-60Hz, 2A (no head load)



TEC/Air Head (top)



TEC/Air Head (face)



TEC/Water 16 site Head