ഗ Ш E A I

uL

TC Laboratory Series

Ultra-stable Temperature Controller Instrument



- Two models: 5 A and 10 A output current
- Compliance voltage of 15 V
- Temperature stability better than 0.0009°C
- · Compatible with a variety of sensors
 - » Thermistors
 - » 2, 3, or 4-wire RTDs
 - » Linear voltage sensors
 - » Linear current sensors
 - » NEW! IR sensors for measuring liquids or solids without contact or contamination
- Touchscreen with intuitive user interface
- Safety features protect your research
 - » Adjustable current limit, with Brick-Wall Never-Exceed circuitry
 - » Password protection available to lock out a selectable control set
 - » Over-temperature protection circuit
 - » Temperature limits on the load
 - » Shutdown signal to the QCL/laser driver load to protect against over or under temperature situations.
- Autotune sets ideal control parameters for optimal time to temperature or disturbance rejection
- Complete command set for remote control from computer

LabVIEW* interface

- Auxiliary input for heatsink sensor
- Feature-rich for research projects
 - » USB and Ethernet interfaces with software included
 - » Auto temperature scan function
 - » Data collection using a computer or USB flash drive
 - » Field upgradeable firmware
 - » Sophisticated error handling
 - » Save and recall functions for specific set ups
- CE compliant
- · All software and instrument documentation, as well as additional data storage, provided on a USB flash drive
- Optional rack mount kit: 2 U height, ½ rack width
- AC input switch selectable from 115/230 ±15% VAC with a 50/60 Hz powerline frequency

^{*} LabVIEW is a trademark of National Instruments.



ഗ

◁

Ш

u







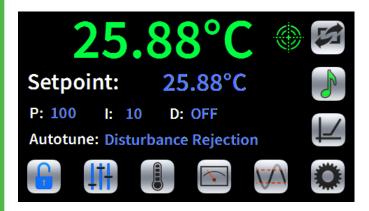






TC Laboratory Series Ultra-stable Temperature Controller Instrument

INTUITIVE USER TOUCH SCREEN INTERFACE

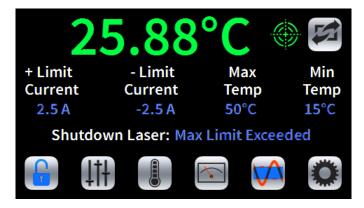


Control Screen

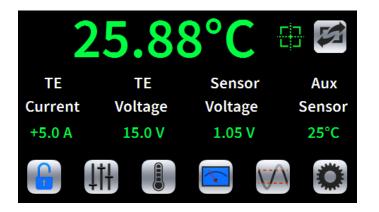
APPLICATIONS

The advanced and reliable circuitry of the TC LAB Series instruments achieve better than 0.0009°C temperature stability.

The ultra-stable temperature controller instruments are particularly reliable for research in electro-optical, medical, spectroscopy, and defense systems wherever precision temperature control is required.



Limit Screen



Monitor Screen

ELECTRICAL SPECIFICATIONS

TEMPERATURE CONTROLLER SPECIFICATIONS							
DRIVER OUTPUT CURRENT	MIN	TYP	MAX	UNIT	NOTE		
Output Current	5 or 10			Α			
Compliance Voltage	15			V	Internal Supply Voltage can be adjusted from the front panel.		
Stability, 1 Hour	0.0009			°C	25°C Ambient		
Stability, 24 Hours	0.002			°C	25°C Ambient		
Temperature Coefficient	5	10	18	ppm / °C			

Free, effective, and responsive technical support is available.

Sales@teamWavelength.com 406-587-4910

ORDERING INFORMATION				
TC10 LAB	10 A, 15 V Temperature Controller Instrument			
TC5 LAB	5 A, 15 V Temperature Controller Instrument			
RCKMT-LAB SNGL	19" Single Unit Rack Mount Kit			
RCKMT-LAB DUAL	19" Dual Unit Rack Mount Kit			
IR SENSE KIT	IR sensor, Bracket, and Tripod			
THERMISTORS	Various Thermistors Available			
CABLES & CONNECTORS	Various connector kits and cables are available			

