

Temperature Monitoring & Control

Cryogenic temperature monitoring solutions for both visual and PLC or PC integrated solutions. Customers can select from the most common diode curves or load a custom curve for specialty applications.

E Series of Temperature Monitors

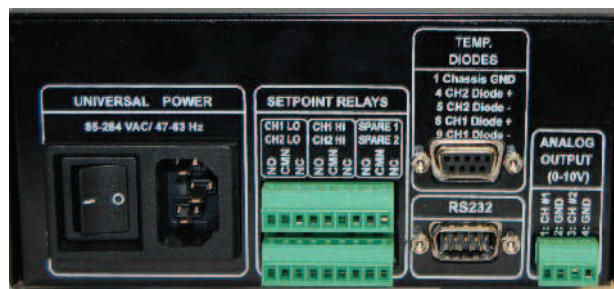
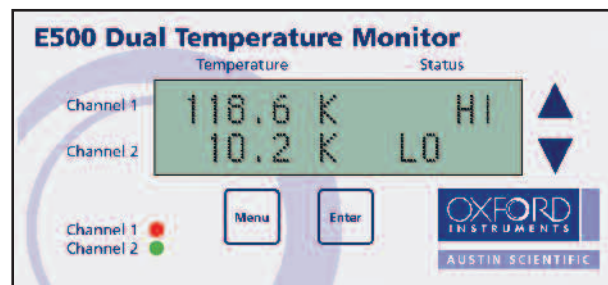
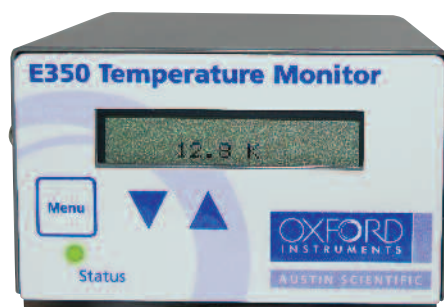
- Visual temperature display with 0.1K resolution
- Universal Power Input designed with solid state electronics
 - 115/240 V 50/60 Hz
- Bright LCD display
- Desktop with optional rack mount configuration
- 4 Diode curve selection (temperature sensor)
 - Austin Scientific (ASC) Diode
 - CTI Cryogenics Diode
 - DT-470 Silicon Diode
 - DT-670 Silicon Diode

E350 – Single Channel Cryogenic Temperature Monitor

- LED Status Indicator (Red, Yellow, Green)
- Standard 2U X 1/3 19" Rack

E500 – Dual Channel Remote Cryogenic Temperature Controller

- Visual temperature display for two temperature sensors or one dual diode cold head or cryopump
- Custom Programmable Diode Curve (Temperature Sensor) via RS232 serial port
- 2 User programmable set points per channel to trigger dry contacts to Hi / Low programmable set points
- LED Status indicator – Green, Yellow, Red indicators defined by Hi / Low set points
- Each dry contact provides a normally open, normally closed and common contact to control external equipment or relays.
- Analog remote temperature monitoring output – 0~10 volt DC
- Remote monitoring for PLC / PC via RS232 serial port communication to monitor 2 temperatures & 6 relay status
- Standard 2U X 1/2 19" Rack



E350 Single Channel Temperature Monitor	Part No	Description
	99-00076-010	E350 includes power cable and 10 foot cable
	99-00076-020	E350 includes power cable and 20 foot cable

E500 Dual Channel Temperature Monitor	Part No	Description
	93-00040-000	E500 includes connections for dry contacts, analog output and power cable
	99-00072-000	19" Rack mount kit (fits up to two 500s)
		Remote PC software

Configuration	Cables	10 Ft	15 Ft	20 Ft	50 Ft
Single Cryopump	Standard single diode cable	10133-10	10133-15	10133-20	10133-50
Dual Diode Cryopump	Dual diode cable	81-00016-010	81-00016-015	81-00016-020	81-00016-050
Two Cryopumps	Dual cryopump diode cable	81-00038-010	81-00038-015	81-00038-020	81-00038-050

Custom length cables available on request.

Temperature Monitor Cable Compatibility

Connectors compatible with most CTI and all Austin Scientific cryopumps are standard on the E350 & E500 temperature monitor cables.

Single Cryopump Cable

Single cable with DB9 connector at the temperature monitor and 5 pin connector at the cryopump using 2 pins to monitor the second stage of the cryopump.



Dual Diode Cryopump Cable

Single cable with DB9 connector at the temperature monitor and 5 pin connector at the cryopump using 4 pins to monitor the temperature of the first and second stages.

Dual Cryopump Diode Cable

Single DB9 connector at the temperature monitor splits into two cables each with a 5 pin connector connecting to each of the two cryopumps to be monitored. Connectors each use 2 pins to monitor the second stage of each of the two cryopumps.



Diode Upgrade Kit Part number 99-00002-000

For cryopump customers using Hydrogen Vapor Bulb Gauges, ASC offers Diode conversion kits which include the standard cryopump 5 Pin vacuum feed through connector.

Customers can also design their own custom cables by ordering standard connectors from ASC or by following the pin out diagram on the back of the E350 & E500 Temperature monitors.



Diode Part number 99-00002-001

ASC Diode kits are also available to monitor other cryogenic temperature process to 10K.

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