



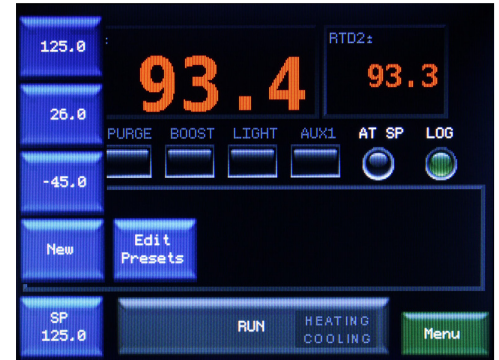
## TSR Series Temperature Controller

Fully-compatible replacement controller for Sigma Systems' chambers and platforms.

The TSR Series Controller was specifically designed by Temptronic to replace C, CC3, CC3.5 and C4 Controllers used in Sigma Systems' thermal chambers and platforms. It has the same physical dimensions permitting easy mounting for all applications including built-in. Compatible syntax allows use of existing programs. Moreover, the TSR delivers dramatic time savings and enhanced functionality.

### TSR Series Controller

- Fully compatible with older controllers — no need to rewrite programs
- Intuitive setup — touch-screen programming
- Settable DUT Control mode — gets device to temperature faster
- Real-time performance — numerical and graphical temperatures
- Added communications — Ethernet & USB
- Built-in diagnostics — valve counts, ambient temp, controller/blower runtimes & more



Monitor cycling and performance in real time.

### TSR Added Features

| Function                        | C3/C4 | TSR |
|---------------------------------|-------|-----|
| Touch-screen Setup              |       |     |
| Local Program Storage           | 1     | 8   |
| Ethernet Capable                |       |     |
| Real-time Trend                 |       |     |
| Device Under Test (OUT) Control |       |     |
| Built-in Diagnostics            |       |     |
| Dual Power                      |       |     |





# Sigma Systems

## Specifications

### Fully Compatible Replacement

Migration to the new controller is easy. The TSR Series Controller provides the functionality of older Sigma controllers in addition to touch control, local storage, Ethernet, and diagnostics. Why repair older controllers when you can enjoy state-of-the-art design, more benefits, and extended support.

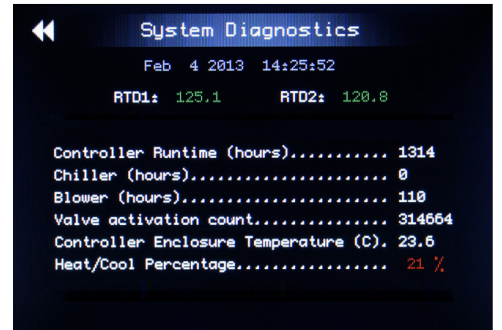
### Availability

The TSR Controller is available for shipping. For more information call +1-781-688-2300 or email sales@intestthermal.com.

|                                      |  |
|--------------------------------------|--|
| Temperature Measurement Capabilities | Range: -210° C to 680° C<br>Accuracy: 1.0° C<br>Resolution: 0.1 ° c full scale   |
| User Interface                       | 3.2" color touch-screen with temperature graphing and charting   |
| Control Safety                       | Compatible with Precision Fail-Safes (PFS)<br>High and low temperature limits  |
| Compliance                           | RoHS<br>Designed to meet UL 61010 and CE   |
| Diagnostics                          | Controller, chiller, & blower runtime hours<br>Valve activation counts<br>Controller enclosure temperature<br>System performance log |
| Operating Environment                | Temperature: 10 to 50° C<br>Humidity: 10 to 50%  |
| Temperature Sensors                  | RTD (500 Ohm)  |
| Communication Interfaces             | Ethernet 10/100, Telnet,<br>HTML web server, USB-2.0,<br>RS232 (optional)<br>IEEE-488 GPIB (optional)                                |
| Power Requirements                   | Voltage: 100 to 250 VAC<br>Frequency: 50/60 Hz<br>Current: up to 30A (application based)   |
| Physical Dimensions                  | Size: 11" x 3518" x 55116" Compatible with C, CC3, CC3.5, and C4 controllers   |
| Compatibility                        | Supports C, CC3, CC3.5 and C4 functionality & command set  |



Touch-screen operation makes programming and editing easy — no need to look up cryptic codes.



Real-time view of diagnostics helps maintain proper operation of equipment.



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