# Proportional Temperature Controller Model 100-50

## Proportional Temperature Controller p/n 100-50

The ramé-hart Proportional Temperature Controller offers precise temperature control for environmental chambers and other ramé-hart temperature-controlled products (see list). Featuring a PID controller, this unit automatically adjusts its settings for optimal performance, ensuring stable and reliable temperature regulation with an impressive control accuracy of ±0.1°C. Designed for versatility, the controller can be operated via an intuitive push-button interface or remotely through DROPimage Advanced software [3], providing seamless control in both hands-on and automated environments. It is fully compatible with all current-generation ramé-hart heat-controlled accessories (see list) as well as select legacy products, making it a valuable addition to both new and existing setups.

With its user-friendly design, exceptional temperature accuracy, and optional temperature logging, the ramé-hart Proportional Temperature Controller is an ideal companion for laboratories and research facilities requiring precise environmental control for almost any ramé-hart temperature-controlled chamber or product.

## What's In The Box

Proportional Temperature Controller (shown below), country specific power cord, USB cable, and User Guide.



*Proportional Temperature Controller p/n 100-50*

## Specifications

| | |
|---|---|
| Input power | 100-240 VAC 50/60Hz [1] |
| I/O Ports | Thermocouple [2] (front) |
| | Heater Power [2] (front) |
| | Power Socket (rear) |
| | USB Port (rear) |
| Temperature Range | Limited by mating product (typically 300° C) |
| Control Accuracy | +/- 0.1° C |
| Sensor Compatibility | All ramé-hart thermocouples |
| Communications | USB 2.0 (port on rear) [3] |
| Control Type | Proportional Integral Derivative PID |
| Software Compatible | DROPimage Advanced [3] |
| Enclosure Size | 10 x 7 x 4 inch (25 x 18 x 10 cm) |
| Control Interface | LED Display with push buttons or via DROPimage interface Advanced [3] |

## Products Supported

| | |
|---|---|
| 100-07 | Environmental Chamber |
| 100-08 | High Pressure Chamber [4] |
| 100-11 | Elevated Temperature Syringe [4] |
| 100-26-T | Advanced Chamber with Temp |
| 100-33 | Heated Environmental Cell |
| 100-33-HP | Hot Plate |

[1] Input voltage must match mating product.

[2] Compatible with all current-generation temperature controlled products (see list above).

[3] Optional temperature logging requires DROPimage Advanced v2.7 or higher.

[4] This product is currently retired but the controller is compatible with previously sold units still in use.