

# ANIMAL MICRO TEMPERATURE CONTROLLER

## MTC-1 Animal Micro Temperature Controller

- Control warming blankets and heat plates
- Control Range of ambient to 99.9°C
- 110 to 230V AC line operation
- Resolution 0.1°

Recent interest in a simple low cost temperature controller to maintain small animal temperatures was the reasoning behind the development of the Physitemp MTC-1 microtemperature controller. Utilizing a precision highly stable platinum RTD as the feedback sensor, this inexpensive controller will display and maintain a set temperature within + or - 0.1 degrees Centigrade. The controller is designed to operate from a 12VDC supply and can control an output current up to 4 Amperes (50 Watts). It can also be used with an input voltage between 6 and 24VDC for both lower and higher power applications (up to 90 Watts). A 1/2 inch backlit LCD readout provides continuous display of temperature with 0.1 degree resolution. The set point is easily adjusted from just above room temperature up to 99.9 degrees C via a 20 turn potentiometer. A momentary switch allows the user to toggle the display between the set and run temperatures. The controller combined with either a heat plate or warming blanket is ideal for maintaining the temperature of mice, rats and small animals. For specific applications please contact our Engineering Department



MTC-1 Micro Temperature Controller set-up with HP-1M Animal Warming Plate

### MTC-1 CONTROLLER SPECIFICATIONS

<b>Accuracy:</b>	±1°C
<b>Resolution:</b>	±0.1°C
<b>Range:</b>	Ambient to 99.9°C
<b>Readout:</b>	0.5" Backlit LCD
<b>Max DC Power Output with resistive load:</b>	90 Watts
<b>DC Output Rating:</b>	min 6V max 24V DC, 4 Amps
<b>AC ground leakage current:</b>	less than 1 millamp at 110 V AC
<b>Dimensions:</b>	5 1/2" long x 2" wide x 1" deep
<b>Weight:</b>	1lb including power supply
<b>Power Supply:</b>	110V - 230 V AC input, 12V DC output at 4 Amps

### Warming Plates

<b>Dimensions HP-1M:</b>	4 3/8" W x 1/4" H x 8.5"L
<b>Dimensions HP-4M:</b>	1.5" W x 1/4" H x 4"L
<b>Weight:</b>	.5 lbs.
<b>Power:</b>	25 watts
<b>Over Temperature Protection:</b>	100 Ohm RTD

### Warming Blankets

<b>Model no.</b>	<b>WB-1</b>	<b>WB-2</b>
<b>Dimensions:</b>	8" x 6"	10" x 10"
<b>Power:</b>	12 V @ 1.5 amps	
<b>Over Temperature Protection:</b>	100 Ohm RTD	
<b>Lead Length:</b>	3 feet	
<b>Material:</b>	Antibacterial Washable Surface	



WB-1 Animal Warming Blanket