

MICRO TEMPERATURE CONTROLLER

MTC-1 Micro Temperature Controller

- **Control Range of ambient to 99.9°C**
- **110 to 230V AC line operation**
- **Resolution 0.1°C**

Recent interest in a simple low cost temperature controller to maintain small and medium sized objects at physiological 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 is ideal for maintaining the temperature of 60cc perfusion syringes and small heated surfaces. Its compact size (5 1/2" long x 2" wide x 1" deep) makes it ideal where space is at a premium.



Four MTC-1 Micro Temperature Controllers set-up with perfusion syringes.

MTC-1 CONTROLLER SPECIFICATIONS

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