Proportional Temperature Controller

PTC03

Temperature controller for brain slice chambers and heaters

FEATURES

* High output power for rapid heating
* Compatible with our range of heating devices
* Temperature control below ambient with optional Peltier Controller (PC01)
* Proportional Temperature Controller (PTC03) with low noise performance

The PTC03 is a proportional temperature control unit for use in conjunction with our brain slice chambers, perfusion solution heaters and an increasing range of other systems currently under development . A low voltage direct current output with low noise characteristics is used to power heating elements together with a sensor for feedback proportional control. The required temperature is set using the front control panel. When the display selector is set to control the display reads the temperature of the control sensor. Provision is also made to display the temperature from a monitor sensor if this is being used. At a setting of 40 degrees, with an ambient of 20 degrees centigrade full control is reached within 10 minutes when used with our submerged and interface mode slice chambers. The set temperature must exceed ambient by at least 2 degrees centigrade. Set temperatures are not lost in the event of a power loss: unit can be left to operate from day to day without having to set temperature each time.

SPECIFICATIONS OF PTC03

Readout accuracy	+/ - 0.1 degrees centigrade.
Control accuracy	0.5 degrees centigrade below set temperature maximum difference.
Control stability	Not more than +/ - 0.1 degree centigrade from control point.
Output power	36 Watts Max.
Output type	D.C. Proportional control.
Temperature range	10 to 60 degrees centigrade.
Sensors	PT100 Platinum Resistance Grade B (Control & Monitor).
Power requirements	110V / 240V +/ - 10% 60/50Hz, 50 W (specified on order).
Dimensions	27cm W x 27cm D x 9cm H.
Weight	4 Kg.