

## **INSTALLATION INSTRUCTIONS FOR HP-4M WARMING PLATE FOR USE WITH TCAT2-LV AND TCAT2-DF CONTROLLERS**

**Check content of package carefully to verify contents comprising:**

- 1. HP-4M Warming Plate**
- 2. 3 foot long connector cable**

### **Installation Instructions:**

1. Attach the round 7-pin connector to mating socket on rear of TCAT2-LV or TCAT2-DF. The connector is mechanically polarized to prevent incorrect insertion. Once inserted rotate the outer ring at the tip of the connector 90 degrees in a clockwise direction to lock in place.
2. Attach opposite end of cable to the HP-4M warming plate. This connector is also polarized to prevent incorrect insertion and has a built in locking tab to prevent accidental removal. Press down on the locking tab and pull back to disconnect from warming plate.
3. A Platinum RTD Sensor built into the plate signals the controller to prevent it from overheating. Power to the plate is interrupted if the plate temperature exceeds 42 degrees centigrade. If higher plate control temperatures are required, instructions for changing this set point can be provided upon request by our service department at the number below.
4. A second type T thermocouple sensor is described in the instructions for use of the TCAT2-LV and TCAT2-DF controllers to provide feedback control in the system. For rats this would normally be a RET-1 flexible rectal probe and for mice the IT-18 can be used. If you have any questions about a specific application, please call our Engineering Department at 973-779-5577 ext 15.

### **Specifications:**

**Plate Size:** 1.5 inches wide x 4 inches long x .25 inches thick

**Power requirements:** 12VDC at 2 Amps (25 watts)

**Sensor:** Ceramic encapsulated Platinum RTD sensor, nominal resistance 100 ohms at 0 degrees centigrade.

### **Warranty Information:**

Physitemp Instruments Inc. warrants this product to be free of defects in material or workmanship for a period of 12 months from date of shipment. Repair or replacement will be made at no charge at the discretion of Physitemp if the defect is not the result of misuse or abuse. Physitemp accepts no consequential liability for delay in delivery, alleged faulty performance of the product or any other cause.