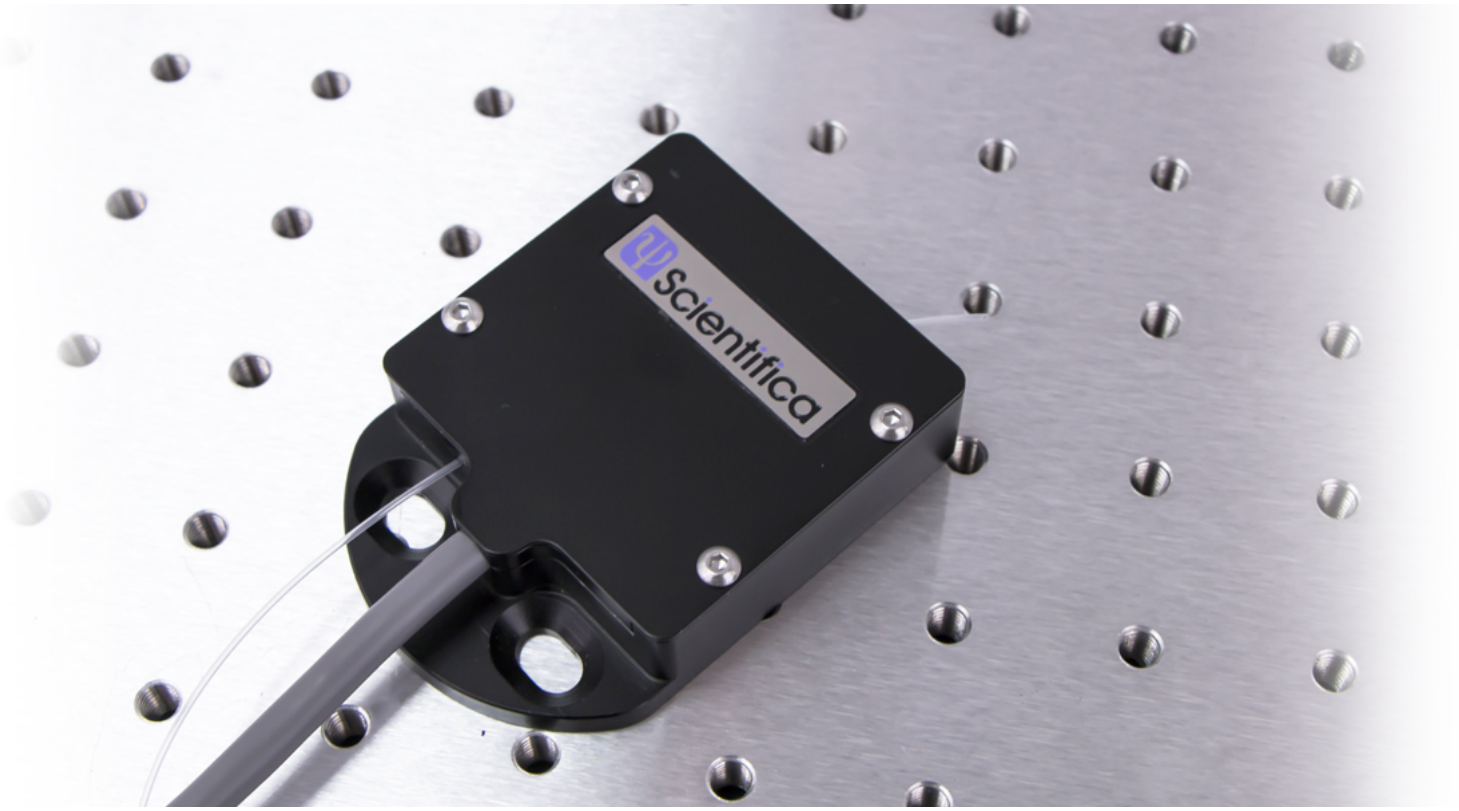
Scientifica

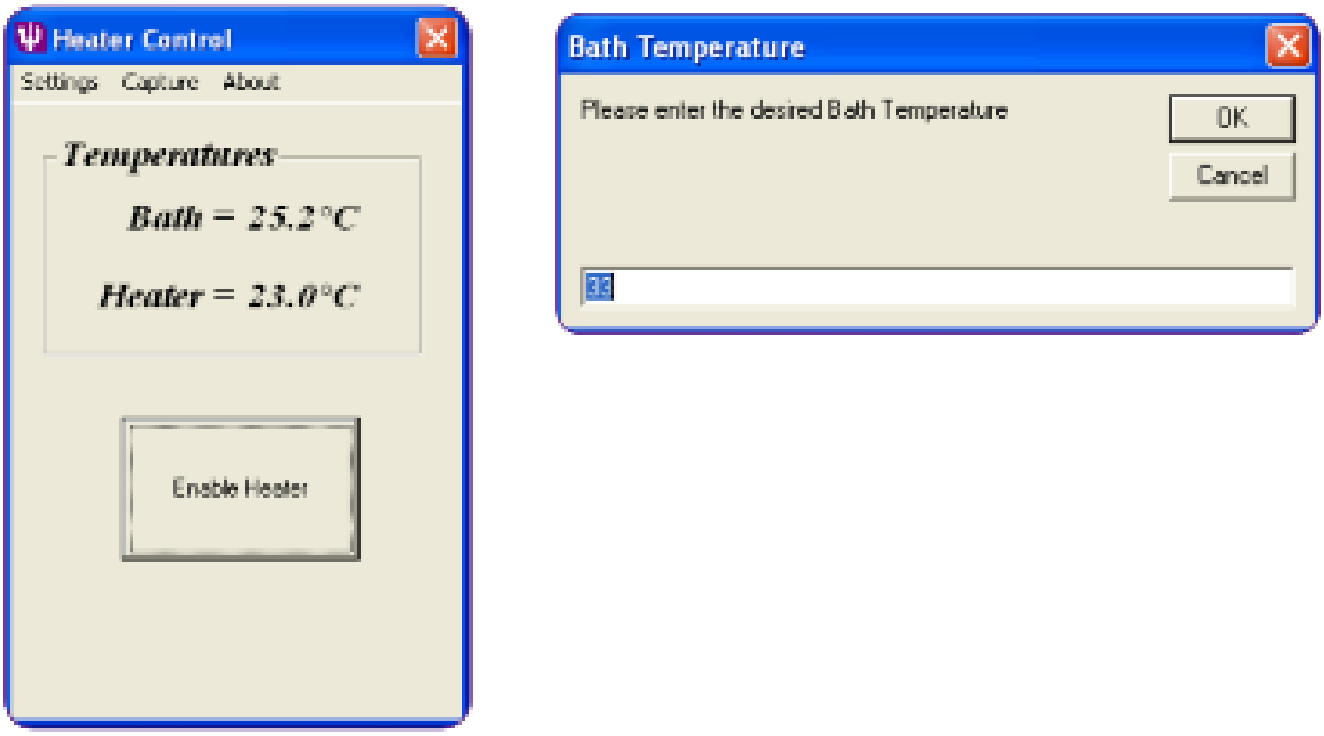
Scientifica Temperature Control



Scientifica Temperature Control

Temperature Control Overview

The Scientifica Temperature Controller uses an in-line peltier heater and allows the heating of perfusion solutions to physiological temperatures (up to a maximum of 37 degrees Celsius when used at a flow rate of 6ml/m). Temperatures can be controlled within 0.1 degrees. The Temperature Controller uses the Scientifica LinLab software for operation and allows adjustment of temperature settings such as gain and maximum temperature. Actual bath temperature as well as heater temperature can be viewed against the target temperature through a live graph, shown in the LinLab software and this can be export for reference against sample recordings.



LinLab heating control example

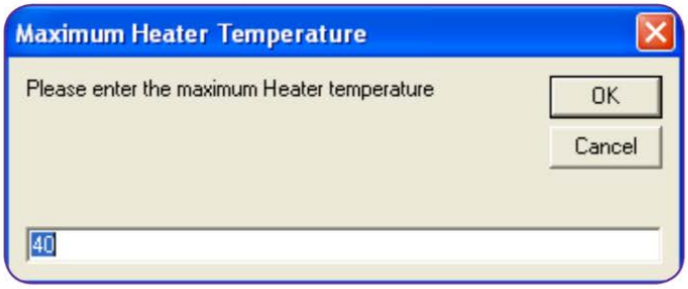
The system includes:

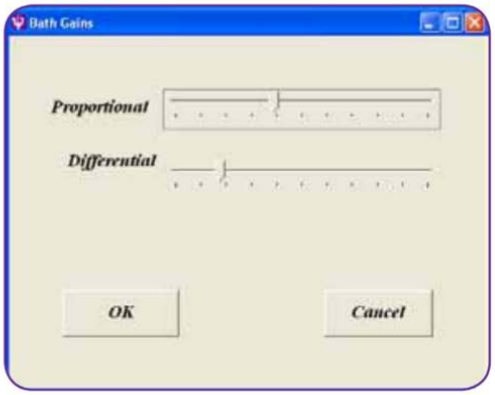
- The heating control rack
- LinLab software
- The HPT-2A inline heater
- A temperature sensor

Software

The simple software control allows the user to set a target temperature for the perfusion solution. A built-in sensor, positioned close to the inlet of the perfusion line, gives constant feedback of the actual solution temperature to adjust the heat output of the inline heater.

A maximum heater temperature can be defined as a safety measure to prevent the inline heater from overheating. The response pattern of the heater to the feedback from the bath can be adjusted in the Bath Gains window to allow optimal control.





Ordering Information

SM-4500 - 1U controller unit with PC connection, resistive inline heater with built in temperature sensor and bath sensor for accurate feedback & Scientifica LinLab PC control

Warranty

All Scientifica instruments are sold with a two year warranty to give you complete peace of mind. This covers all defects in manufacturing and materials, providing the system is registered with us within 30 days of delivery. An extended warranty can be purchased if desired after this two year period.