

# Hot-Cold plate

for testing animal sensitivity to pain resulting from exposure to heat or cold



## Key Features

- Unmatched temperature stability and control for both heat and cold
- Fast reach to set temperatures
- Homogeneous temperature surface distribution
- Practical foot switch timing operation
- Time-saving computer interface
- Editable temperature "ramps" and "loops" protocols available

## PRODUCT OVERVIEW

Panlab Hot/Cold Plate Analgesia Meter is based on a metal plate which can be heated or cooled for assessing pain sensitivity to a wide range of thermal stimuli.

The animal pain sensitivity resulting from exposure to heat or cold is tested by placing the animal on the surface of the plate and starting a built-in timer. The operator stops the timer at the instant the animal lifts its paw from the plate, reacting to the discomfort. The front panel timer then displays the number of seconds the animal took to react. Animal reaction time is a measurement of animal resistance to pain and is used to measure efficacy of analgesics.

Metrology wise is accurate to less than 0,5°C (EEC metrology standard) and perfectly constant in the animal holder system. The preset temperature will not change for more than 0,1°C when a 400g rat is placed on the plate, and return to the set temperature is almost immediate.

The operator can read the animal reaction time from the display or from a PC computer via USB. A remote foot-switch controls the test start/stop allowing rapid hands-free experiments.



### INCLUDED!!!!

an easy-to-use software (BSRamp) for adjusting user-defined temperature ramps and loops

## APPLICATIONS

Pain disorders, Hyperalgesias, Analgesics screening, Phenotyping

## SPECIFICATIONS

Temperature range	-3°C to 65°C (in 20°C to 25°C ambient environment, 50% RH)
Temperature Accuracy	±0,5°C
Temperature uniformity on plate	±0,5°C
Power requirements	110V/220V automatic, 100W
Plate Dimensions	165 x 165 mm
Control unit dimensions	305 x 280 x 158 mm
Weight	6,5kg

## ORDERING INFORMATION

LE7420 76-0112 Hot/Cold Plate including BSRamp Software

## Contact us for additional information

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