

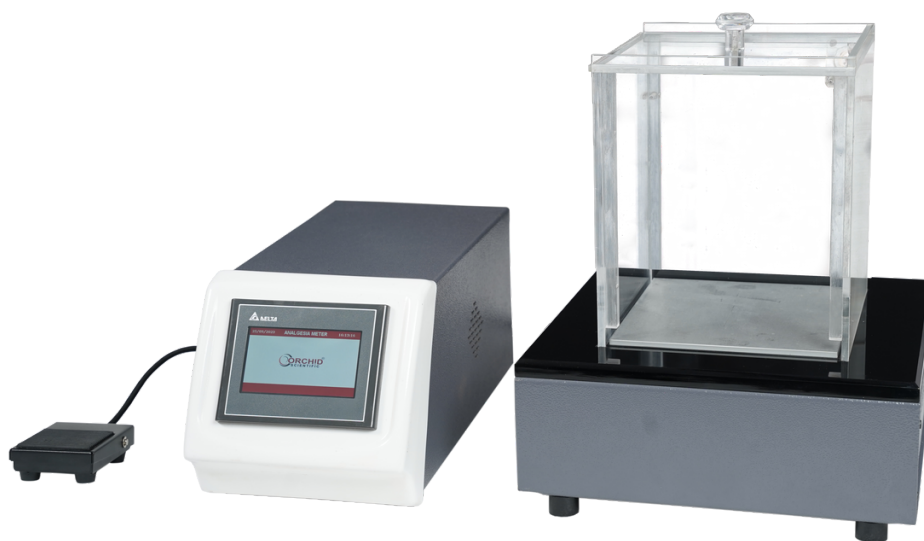
Analgesia Meter (Hot & Cold Plate Type)

FOR TESTING HOT & COLD TEMPERATURE-INDUCED PAIN IN MICE & RAT

The Hot & Cold Plate Analgesia Meter performs rapid & precise screening of analgesic drug properties on small laboratory animals. Orchid's Hot & Cold Plate Analgesia Meter has been developed for both conventional hot plate tests and cold pain tests. Pain sensitivity to heat is assessed by placing the animal on the top of an aluminum plate and starting the timer. The operator stops the timer at the instant the animal lifts its paws from the plate, reacting from discomfort. The front panel timer displays the latency to react, a measurement of the animal's resistance to pain.



**Designed To
Performs Rapid &
Precise Screening Of
Analgesic Drug
Properties On Small
Laboratory Animals.**



FEATURES:

- Plate temperature can be held at a set point between -5°C to 60°C ($\pm 0.5^{\circ}\text{C}$)*
- Instrument has provision to add max sequence numbers, auto experiment number, and animal sex.
- Operating modes : Normal / Ramp
- Remote foot-switch controls the test start/stop allowing rapid Hands-free experiments
- High temperature stability & Uniform surface heat distribution
- A built-in timer activated by an external foot switch allows the precise measurement of the reaction time (0.01 Sec. Resolution)
- Precise and reproducible results
- Cut off timer to avoid damage to animal

- Top LID Sensor to indicate lid is open and thereof avoiding temperature fluctuations
- PC Connectivity with software
- Software with calibration and report generation feature
- Software has provision to add titles, comment, and graphical presentation, and data can be converted into Excel or pdf

SYSTEM SPECIFICATION & MODELS:

Model	Control Unit Dimensions (LxWxH)	Plate Dimensions (LxWxH)	Animal Enclosure Dimensions (LxWxH)	Temperature Range ° C	Reaction Time (Seconds)
HC-01	Box 1: 310x190x184 Box 2: 300x325x140	190x190x6	205x205x250	-5°C to 60°C (± 0.5° C)	Digital timer resolution of 0.01s

ORDERING INFORMATION:

Model	Certifications	Power requirement	Accessories
HC-01	CE Compliant	220/230V AC 50Hz or 110/120V AC 50-60Hz*	<ul style="list-style-type: none"> • Control Panel With Acrylic Chamber. • lid • Foot switch

*Needs to be specified in the order information

Note: For achieving the extremes of the Cold mode temperature, ambient temperature must be within 17°C range of set temperature.

SOFTWARE REPORT FORMATS:

Experiment Report

Experiment No: 1 | Experiment Mode: Normal | Experiment Date: 16/9/19 19:41:43

Cutoff time: 6.00 (secs) | Max. Sequence: 10

SeqNo	Animal ID	Gender	Ambient Temp (°C)	Response Time (sec)	Ramp Temp (°C)	Animal Wt (gms)
1	1	Female	30.2	C.O		
2	7	Female	30.2	2.00		
3	11	Male	30.2	2.82		
4	2	Female	30.2	3.19		
5	3	Female	30.2	C.O		
6	3	Female	30.2	C.O		

Response Time (Secs) vs Seq No. Bar chart showing response times: Seq 1: 6.00, Seq 2: 2.00, Seq 3: 2.82, Seq 4: 3.19, Seq 5: 6.00, Seq 6: 6.00.

Note: Orchid's continuing product development makes specifications subject to change without prior notification.



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