



DIGITAL PLETHYSMOMETER

For screening of inflammation
or oedema in mouse or rat



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The Digital Plethysmometer is a micro controlled volume meter, specially designed for accurate measurement of the rat / mouse paw swelling. The Digital Plethysmometer is a highly useful tool to evaluate the inflammatory response experimentally induced in small rodents and to screen potential anti-inflammatory or anti-oedema properties of pharmacological substance. The water displacement produced by the immersion of the animal paw in the measuring tube is reflected in to the second tube, inducing the volume displacement. This displacement value is recorded. The control unit can be zeroed between successive readings by pressing the reset key, so as to avoid the error arising due to adherence of water to the paw of the animal.

Foot switch allowing rapid hands-free experiments can be used to control the end point of the measurement.

Parameters measured:

Mice Paw Volume (0-5ml), Rat Paw Volume (0-10ml)

Features :

- Button touch auto- calibration mode making hassle free calibration.
- High accuracy : ± 0.01 ml.
- Resolution : 0.01 ml.
- Easy to use pedal switch.
- Stable & comfortable reading on graphical LCD display.
- No need of separate tube assembly for rat & mice.
- Data entry for: Experiment Nos./ Sequence Nos./Sex of Animal / Paw : Left - Right etc.
- Data storage for 100000 experiments.
- Six Point Calibration 0.50ml, 1.00ml, 2.00ml, 3.00ml, 4.00ml & 5.00ml.
- Software for PC Connectivity using RS232 serial interface for data transfer and report generation with graphical presentation.
- Provision to add experiment name, comment & animal weight(grams) in the software report.
- Data can be transferred to excel or pdf.
- Software with password protected experiment delete function.

Specifications and Models :

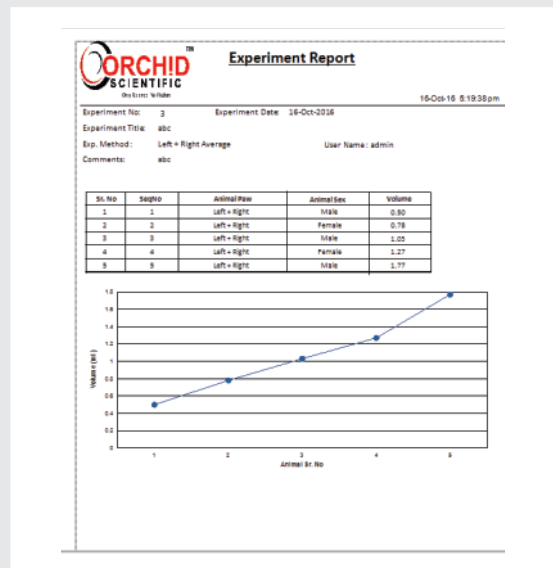
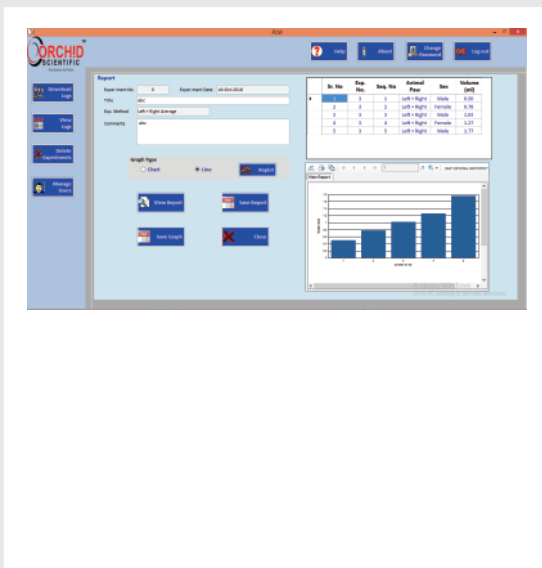
Specifications	Model
	PLM 01 Plus
Accuracy	± 0.01ml
Resolution	0.01ml
Calibration	Auto and Manual
Display	GLCD
Animals to be tested	Mouse, Rat
PC Connectivity	By Using RS232 Cable
Material of composition	Methacrylate, S.S. 304

Ordering Information :

Model	Certification	Power Requirements	Accessories Supplied
PLM01 PLUS	CE Compliant	220/230V AC 50Hz 110/120V AC 50-60Hz*	<ul style="list-style-type: none"> ● Control Unit With Communication Port to PC & Software Utility, ● Pedal Switch, ● Immersion Tube Assembly With Reservoir and Adequate Silicon Tubing, ● Two Separate Stand for Holding The Immersion Tube Assembly, ● Instructional Manual, ● RS232 Cable and RS232 to USB Convertor, ● Surfactant Solution Bottle, ● Micro-litre Syringe (500 µl) ● Digital Pocket Conductivity Meter, ● Software For Data Connectivity.

*Needs to be specified in order information | Optional : Computer and printer to be arranged by user

Software Report Formats :



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

Comparison With Other Products :

Features	Orchid's	Other's
Resolution	0.01ml	0.01ml
Accuracy	±0.01ml	±0.01ml
Auto-Calibration	In built auto-calibration mode provides user ease of button touch calibration at any time of experiment	Manual Calibration, takes more time
Immersion Tube Holding Arrangements	Two separate stands provided for holding immersion tube assembly and reservoir avoid reading fluctuations due to animal support on rod of stand	No stand supplied with instrument
Microliter Syringe	Calibration on volume basis using syringe can be done more accurately in place of calibration probes	Only calibration probes are supplied
Control on Conductivity of Solution and Reading Stability	Digital pocket conductivity meter is supplied with machine to check conductivity of solution to avoid fluctuations in readings due to conductivity changes in solution	No conductivity meter supplied with machine making variations in the solution prepared leading fluctuations in readings
Immersion Tube Assembly	Easy to clean Teflon stopcocks system Maintenance free as no electronic or electrical components involved	Involves complex solenoid valve assembly with limitations of maintenance
Measurement for Mouse and Rat	Same attachment for Mice & Rat	Requires separate attachment
Sensor	Sturdy	Delicate
Immersion Tube adaptor	Separate Immersion Tube adaptor For Rat & Mice	Common Immersion Tube adaptor For Rat & Mice

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Contact US

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