

# Digital Paw Pressure Analgesia Meter

## FOR SCREENING OF ANALGESIC AND ANTI-INFLAMMATORY DRUGS ACCORDING TO THE RANDALL-SELITTO TEST

Orchid's Digital Paw Pressure Analgesia Meter has been designed for rapid and precise screening of analgesic drugs on the normal and inflamed rat paw according to the Randall-Selitto test and displays the pressure digitally. This test is based on the determination of the animal threshold response to pain induced in the paw by the application of a uniformly increasing pressure. The user depresses a pedal switch to start the mechanism which applies the force. When the animal starts to struggle, the user releases the pedal and the pressure at which the animal felt pain is displayed on the TFT Display. The Pressure applicator goes up automatically as soon as the measurement is over. A remote foot-switch controls the motor allowing rapid hands-free experiments. An automatic system is activated once the distal extreme switch of the sliding support track is reached or when the pedal is released at the test ending point. Then, the motor reverse its rotation, sliding up the pressure applicator again. Force software can be used to automatically record the results on PC with USB adapter.



**Designed To Study Rapid And Precise Screening Of Analgesic Drugs On The Normal And Inflamed Rat Paw According To The Randall-Selitto Test And Displays The Pressure Digitally**



## FEATURES:

- Software for Data analysis & Report generation
- Inbuilt weight calibration & calibration report generation facility
- Instrument operates on rechargeable battery\*
- Capacity 2000gf with resolution of 0.1 gf
- Data can be converted to excel & Pdf file for further analysis
- Provision to add experiment name, instrument serial number, test ID, animal sex & 3 readings averaging facility in software report
- Easy interface between Software & Instrument using USB cable
- Digital TFT Display
- Foot-switch control
- Pressure control by different speeds of motor
- In-built Memory up to 150 Readings can be saved
- Free to set upper and lower deviation data, automatically determine whether or not qualified
- Three units for measurement available gf/N/ lbf
- \*For India only due to restrictions of battery transportation

## SYSTEM SPECIFICATION AND MODELS:

Specification	Model
	<b>PPA-01</b>
<b>Capacity</b>	2000 gf
<b>Resolution</b>	0.1 gf
<b>Accuracy</b>	±0.2%
<b>Display type</b>	TFT
<b>Battery</b>	Rechargeable battery*
<b>Measurement Units</b>	Grams(gf)/Newton(N)/Pound(Lbf)
<b>Useful for</b>	Paw & Tail Pressure Measurement
<b>PC Connectivity</b>	Using USB Cable
<b>Required System Configuration</b>	Windows 7/8 or 10 etc ≥ 512 MB RAM , ≥ 100GB Hard disk
<b>Power Requirements</b>	220/230 V AC 50-60Hz or 110/120 V AC 50-60Hz**
<b>Control Unit Dimensions</b>	140 (W) x 200 (D) x 80 (H) mm
<b>Stimulation Unit Dimensions</b>	185 (W) x 235 (D) x 245 (H) mm

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\*\*Needs to be specified in order information

## ORDERING INFORMATION:

Model	Useful for	Accessories
PPA-01	Animal threshold response to pain induced in the paw according to the Randall-Selitto test	<ul style="list-style-type: none"> <li>Paw pressure applicator unit,</li> <li>Control Panel,</li> <li>Pedal switch,</li> <li>Pressure applicator tips-2,</li> <li>USB Cord, &amp; Software</li> </ul>

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

## SOFTWARE REPORT FORMATS :

The software interface displays a bar chart of AVG Reading (Y-axis, 0.000 to 14.000) versus Animal Sr. No. (X-axis, 1 to 20). The 'Experiment Report' window shows the following data table:

Sr. No.	Animal No.	Reading 1	Reading 2	Reading 3	Avg	Error
1	1	8.540	8.475	7.200	8.071	
2	2	11.071	8.721	8.453	10.134	
3	3	12.450	10.966	11.400	11.802	
4	4	8.705	10.440	8.744	11.249	
5	5	8.870	11.520	8.104	10.511	4%
6	6	8.400	8.441	8.011	8.470	
7	7	11.053	8.441	10.411	10.168	10%
8	8	12.140	5.511	8.059	8.589	
9	9	8.500	11.734		8.980	
10	10	8.540	8.475	7.200	8.571	
11	11	11.007	8.721	8.453	10.134	
12	12	11.454	10.966	11.400	11.442	
13	13	8.705	10.440	8.744	11.249	
14	14	8.870	11.520	8.104	10.511	
15	15	8.400	8.441	8.011	8.470	
16	16	11.053	8.441	10.411	10.168	
17	17	11.000	5.511	8.059	8.589	
18	18	8.540	8.475	7.200	8.571	
19	19	11.071	8.721	8.453	10.134	



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