DIGITAL PAW PRESSURE ANALGESIA METER

For Screening of analgesic and anti-inflammatory drugs according to Randall-Selitto test

ORCHID SCIENTIFIC

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For Screening of analgesic and anti-inflammatory drugs according to 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 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 start to struggles, 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 rapidhands-free experiments. An automatic system is activated when the distal extreme switch of the sliding support track is reached or when the pedal is released at the test endpoint. Then, the motor reverses its rotation, sliding up the pressure applicator again. Force software can be used to automatically record the results on PC with USB adapter.

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 & Models:

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>2000 gf</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 gf</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.2%</td>
</tr>
<tr>
<td>Display Type</td>
<td>TFT</td>
</tr>
<tr>
<td>Battery</td>
<td>Rechargeable Battery*</td>
</tr>
<tr>
<td>Measurement Units</td>
<td>Grams(gf)/Newton(N)/Pound(Lbf)</td>
</tr>
<tr>
<td>Useful for</td>
<td>Paw &amp; Tail Pressure Measurement</td>
</tr>
<tr>
<td>PC Connectivity</td>
<td>Using USB Cable</td>
</tr>
<tr>
<td>Required System Configuration</td>
<td>220/230V AC 50-60Hz or 110/120V AC 50-60Hz**</td>
</tr>
<tr>
<td>Control Unit Dimensions</td>
<td>140(W) x 200 (D) x 80 (H) mm</td>
</tr>
<tr>
<td>Stimulation Unit Dimensions</td>
<td>185 (W) x 235 (D) x 245 (H) mm</td>
</tr>
</tbody>
</table>

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**Needs to be specified in order information

### Ordering Information:

<table>
<thead>
<tr>
<th>Model</th>
<th>Useful For</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPA-01</td>
<td>Animal threshold response to pain induced in the paw according to the Randall-Selito test</td>
<td>Paw pressure applicator unit, Control Panel, Pedal Switch, Pressure applicator tips-2, USB Cord Software.</td>
</tr>
</tbody>
</table>

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

### Software Report Formats:

![Software Report Format 1](image1.jpg)

![Software Report Format 2](image2.jpg)
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Contact US

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