Combining Economy and High Performance for Essential Weighing

The Pioneer PX combines essential weighing functionality with competitive performance, offering high accuracy and repeatability for applications in laboratory, industrial and education settings. The PX is affordably priced, intuitively designed for intelligent operation with a second line display for additional information, and USB and RS-232 connectivity for easy communication.

**Standard Features Include:**

- **Competitive Performance at an Economical Price**
  The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.

- **Durably Constructed for Long-Term Use**
  Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.

- **Designed for Simple, Intelligent Operation**
  The PX features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB and RS-232 connectivity for easy communication.
**Pioneer® Semi-Micro and Analytical Balances**

A static removal bar (constructed of permanent static electric dissipative ABS) provides a convenient grounding location.

Large viewing angle with bright backlit LCD display.

Four quick keys enable easy operation of multiple weighing modes.

<table>
<thead>
<tr>
<th>InCal™ Models</th>
<th>PX85</th>
<th>PX225D</th>
<th>PX84</th>
<th>PX124</th>
<th>PX224</th>
<th>PX163</th>
<th>PX323</th>
<th>PX523</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (g)</td>
<td>82</td>
<td>82/220</td>
<td>84</td>
<td>120</td>
<td>220</td>
<td>160</td>
<td>320</td>
<td>520</td>
</tr>
<tr>
<td>Readability (g)</td>
<td>0.00001</td>
<td>0.00001/0.0001</td>
<td>0.0001</td>
<td></td>
<td></td>
<td>0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeatability (STDEV) (g)</td>
<td>0.00003</td>
<td>0.00003/0.0001</td>
<td>0.0001</td>
<td></td>
<td></td>
<td>0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linearity (g)</td>
<td>± 0.0001</td>
<td></td>
<td>± 0.0002</td>
<td></td>
<td></td>
<td>± 0.002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stabilization Time (s)</td>
<td>10</td>
<td></td>
<td>4</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ExCal Models**

Capacity (g) 82/220
Readability (g) 0.00001/0.0001
Repeatability (STDEV) (g) 0.00003/0.0001
Linearity (g) ± 0.0002
Stabilization Time (s) 4

**Units**

Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Ounce Troy, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical (MM), Mesghal, Tola (India), 1 custom unit

**Applications**

Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination

**Pan Size (Ø)** 3.15 in. / 80 mm 3.54 in. / 90 mm 4.72 in. / 120 mm

**Draftshield Size** 6.8 x 5.2 x 8.1 in. / 172 x 131 x 205 mm

**Power Supply**

Power Input: 100–240V ~ 200mA 50–60Hz 12–18VA

Power Output: 12 VDC 0.5A

**Assembled Dimensions (W x D x H)** 8.2 x 12.6 x 12.2 in. / 209 x 321 x 309 mm

**Operating Conditions**

50 °F to 86 °F / 10 °C to 30 °C

**Storage Conditions**

14 °F to 140 °F / -10 °C to 60 °C at 10% to 90% relative humidity, non-condensing

**Net Weight**

10 lb / 4.5 kg

**Shipping Weight**

15.4 lb / 7 kg

**Shipping Dimensions (W x D x H)** 21.7 x 15.2 x 11.5 in. / 507 x 387 x 531 mm
**Pioneer® Precision Balances**

Large viewing angle with bright backlit LCD display.

2 line display provides additional information or guidance prompts to the user.

Four quick keys enable easy operation of multiple weighing modes.

RS-232 and USB device ports allow for easy connectivity to PCs and PLCs. Equipped with a security lock to prevent unauthorized use.

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### InCal™ Models

<table>
<thead>
<tr>
<th>Model</th>
<th>PX1602</th>
<th>PX2202</th>
<th>PX3202</th>
<th>PX4202</th>
<th>PX2201</th>
<th>PX4201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (g)</td>
<td>1600</td>
<td>2200</td>
<td>3200</td>
<td>4200</td>
<td>2200</td>
<td>4200</td>
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<tr>
<td>Readability (g)</td>
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<td>0.1</td>
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<td></td>
<td></td>
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<tr>
<td>Repeatability (STDEV) (g)</td>
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<td>0.1</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linearity (g)</td>
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<td></td>
<td></td>
<td>± 0.2</td>
<td></td>
</tr>
<tr>
<td>Stabilization Time (s)</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ExCal Models

<table>
<thead>
<tr>
<th>Model</th>
<th>PX1602/E</th>
<th>PX2202/E</th>
<th>PX3202/E</th>
<th>PX4202/E</th>
<th>PX2201/E</th>
<th>PX4201/E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (g)</td>
<td>1600</td>
<td>2200</td>
<td>3200</td>
<td>4200</td>
<td>2200</td>
<td>4200</td>
</tr>
<tr>
<td>Readability (g)</td>
<td>0.01</td>
<td>0.1</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Repeatability (STDEV) (g)</td>
<td>0.1</td>
<td>0.1</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linearity (g)</td>
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### Units

- Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Ounce Troy, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical (MM), Mesghal, Tola (India), 1 custom unit

### Applications

- Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination

### Pan Size (Ø)

- 7.09 in. / 180 mm

### Draftshield Size

- N/A

### Power Supply

- Power Input: 100–240V ~ 200mA 50–60Hz 12–18VA
- Power Output: 12 VDC 0.5A

### Assembled Dimensions (W × D × H)

- 8.2 × 12.6 × 3.9 in. / 209 × 321 × 98 mm

### Operating Conditions

- 50 °F to 86 °F / 10 °C to 30 °C

### Storage Conditions

- 14 °F to 140 °F / -10 °C to 60 °C at 10% to 90% relative humidity, non-condensing

### Net Weight

- 7.7 lb / 3.5 kg

### Shipping Weight

- 11 lb / 5 kg

### Shipping Dimensions (W × D × H)

- 21.7 × 15.2 × 11.5 in. / 550 × 385 × 291 mm
Other Standard Features and Equipment
Metal base, plastic top housing, removable stainless steel pan, removable glass draftshield or side doors, Real Time Clock with GLP/GMP Data, integrated weigh-below-hook, security bracket, calibration lock and in-use cover, user-selectable environmental filters and brightness settings, auto-tare, auto-dim, user-selectable span calibration points, overload indicator, software lockout and reset menu, user-selectable communication settings and data print options, user-definable project and user IDs, software overload/underload indicator, stability indicator, four operating languages

Compliance
• Product Safety: IEC/EN 61010-1; CAN/CSA C22.2 61010-1; UL 61010-1
• Electromagnetic Compatibility: IEC/EN 61326-1 Class B, Basic Environments; FCC Part 15 Class A; Canada ICES-003 Class A
• Compliance Marks: CSA

Accessories
Auxiliary Display ................................................................. 30472064
Density Kit ........................................................................ 80253384
Sinker Glass for Density Determination .............................. 83034024
USB Interface Cable .............................................................. 83021085
Security Device ................................................................. 80850043
RS-232 Cable (25-pin) ....................................................... 80500524
RS-232 Cable (9-pin) .......................................................... 80500525
Dust Cover ................................................................. 30093334
In-Use Cover ................................................................. 30372546
Printer SF40A ................................................................. 30064203
ION-100A ...................................................................... 30130302