



Affordable Balance to Achieve Reliable Results

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.

Unique Features:

- The PX offers high accuracy and repeatability for essential weighing applications in laboratory, industrial and education settings at an economical price point.
- Featuring a cast metal lower housing, sub-pan and stainless steel weighing pan, the PX is durably constructed for versatile, long-term use.
- PX features a second line display for additional information/guidance, & USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

PIONEER® Semi-Micro, Analytical and Precision Balances

Durably constructed of cast metal lower housing, metal sub-pan and stainless steel weighing pan for long-term use.

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

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



Large viewing angle with bright backlit LCD display. 2 line display provides additional information or guidance prompts to the user.

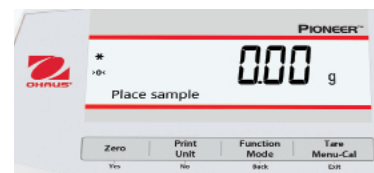
Four quick keys enable easy operation of multiple weighing modes.

| InCal™ Model | PX125D** | PX85** | PX225D** | PX84 | PX124 | PX224 | PX163 | PX223 | PX323 | PX423 | PX523 | PX623 |
|--|--|--------|----------|----------|---------|---------|-----------|---------|---------|---------|---------|---------|
| ExCal Model | - | | | PX84/E | PX124/E | PX224/E | PX163/E | PX223/E | PX323/E | PX423/E | PX523/E | PX623/E |
| Capacity (g) | 52/120 | 82 | 82/220 | 82 | 120 | 220 | 160 | 220 | 320 | 420 | 520 | 620 |
| Readability d, fine range | 0.01mg | | | - | | | | | | | | |
| Readability d, full range | 0.1mg | 0.01mg | 0.1mg | 0.1mg | | | 0.001g | | | | | |
| Repeatability (sd.), 5% of full load | 0.01mg | | | 0.08mg | | | 0.0008g | | | | | |
| Repeatability (sd.), fine range | 0.02mg | | | - | | | | | | | | |
| Repeatability (sd.), full range | 0.1mg | 0.02mg | 0.1mg | 0.1mg | | | 0.001g | | | | | |
| Linearity deviation, typical | ± 0.06mg | | | ± 0.06mg | | | ± 0.0006g | | | | | |
| Linearity deviation | ± 0.1mg | | | ± 0.2mg | | | ± 0.002g | | | | | |
| Stabilization Time (s) | 10 | | | 2 | | | 1.5 | | | | | |
| Sensitivity Temperature Drift (PPM/K) | ± 0.8 | | | ± 3 | | | ± 8 | ± 9 | ± 3 | | | |
| Min-Weight (typical) (USP, K=2, U=0.10%) | 20 mg | | | 0.16 g | | | 1.6 g | | | | | |
| Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)* | 8.2 mg | | | 0.082 g | | | 0.82 g | | | | | |
| 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), Baht, 1 Custom unit | | | | | | | | | | | |
| Assembled Dimensions (W × D × H) | 209 × 321 × 309 mm | | | | | | | | | | | |
| Applications | Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination | | | | | | | | | | | |
| Pan Size (Ø) | 80 mm | | | 90 mm | | | 120 mm | | | | | |
| Power Supply | Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 – 18VA Power Output: 12 VDC 0.5A | | | | | | | | | | | |
| Communication | RS232 and USB | | | | | | | | | | | |
| Operating Temperature Range | Operating conditions for ordinary lab application: +10°C to 30°C (operability guaranteed between +5°C and 40°C). | | | | | | | | | | | |
| Net Weight | 4.5 kg | | | | | | | | | | | |
| Shipping Weight | 7 kg | | | | | | | | | | | |
| Shipping Dimensions (W × D × H) | 507 × 387 × 531 mm | | | | | | | | | | | |

*The value for SRP is the standard deviation for n replicate weighings (n≥10) **Automatic Calibration models

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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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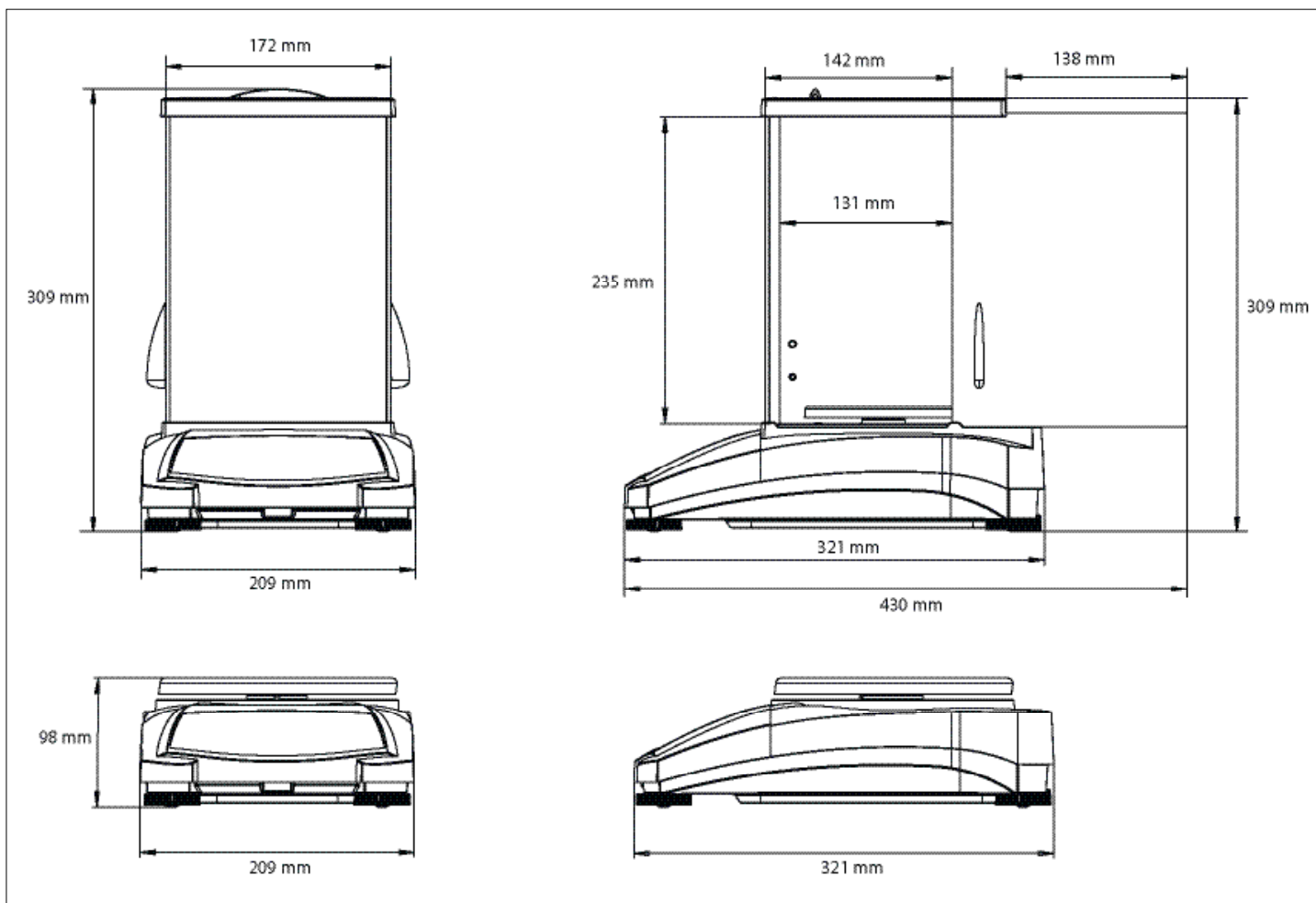


| InCal™ Model | PX822 | PX1602 | PX2202 | PX3202 | PX4202 | PX5202 | PX6202 | PX2201 | PX4201 | - | |
|---|--|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|--|
| ExCal Model | PX822/E | PX1602/E | PX2202/E | PX3202/E | PX4202/E | PX5202/E | PX6202/E | PX2201/E | PX4201/E | PX6201/E PX8201/E | |
| Capacity (g) | 820 | 1,600 | 2,200 | 3,200 | 4,200 | 5,200 | 6,200 | 2,200 | 4,200 | 6,200 8,200 | |
| Readability (g) | 0.01 | | | | | | | 0.1 | | | |
| Repeatability (sd.), 5% of full load (g) | 0.008 | | | | | | | 0.08 | | | |
| Repeatability (sd.), full range (g) | 0.01 | | | | | | | 0.1 | | | |
| Linearity deviation, typical (g) | ± 0.006 | | | | | | | ± 0.06 | | | |
| Linearity deviation (g) | ± 0.02 | | | | | | | ± 0.2 | | | |
| Stabilization Time (s) | 1 | | | | | | | | | | |
| Sensitivity Temperature Drift (PPM/K) | ± 6 | | | ± 3 | | | | ± 10 | | | |
| Typical Minimum Weight USP (g), (USP K=2, U=0,10%) | 16 g | | | | | | | 160 g | | | |
| Optimized Minimum Weight (USP, U=0,10%, K=2) SRP≤0,41d* | 8.2 g | | | | | | | 82 g | | | |
| 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), Baht, 1 Custom unit | | | | | | | | | | |
| Applications | Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination | | | | | | | | | | |
| Pan Size (Ø) | 180 mm | | | | | | | | | | |
| Power Supply | Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 – 18VA Power Output: 12 VDC 0,5A | | | | | | | | | | |
| Assembled Dimensions (W × D × H) | 209 × 321 × 98 mm | | | | | | | | | | |
| Communication | RS232 and USB | | | | | | | | | | |
| Operating Temperature Range | Operating conditions for ordinary lab application: +10°C to 30°C (operability guaranteed between +5°C and 40°C). | | | | | | | | | | |
| Net Weight | 3.5 kg | | | | | | | | | | |
| Shipping Weight | 5 kg | | | | | | | | | | |
| Shipping Dimensions (W × D × H) | 550 × 385 × 291 mm | | | | | | | | | | |

*The value for SRP is the standard deviation for n replicate weighings (n≥10)

PIONEER® *Semi-Micro, Analytical and Precision Balances*

Outline Dimensions



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:** CE; CSA; RCM

Accessories

| | |
|--|----------|
| Auxiliary Display | 30472064 |
| Density Kit for Solids | 80253384 |
| Sinker Glass for Density Determination | 83034024 |
| USB Interface Cable | 83021085 |
| Security Device | 80850043 |
| RS232 Cable (25-pin) | 80500524 |
| RS232 Cable (9-pin) | 80500525 |
| Dust Cover | 30093334 |
| In-use Cover | 30372546 |
| Power Adapter for Balance | 46001724 |
| ION-100A | 30130303 |

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The management system governing the manufacture of this product is ISO 9001:2015 certified.



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