# Pioneer® PX Series

## Analytical and Precision Balances

## Combining Economy and High Performance for Essential Weighing

The Pioneer PX Series 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, and intuitively designed for intelligent operation with a second line display for additional information, and USB and RS232 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 RS232 connectivity for easy communication.

# *PX Series* Analytical 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.


RS232 and USB device ports allow for easy connectivity to PCs and PLCs. Equipped with a security lock to prevent theft.

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™ Models | PX125D | PX85 | PX225D | PX84 | PX124 | PX224 | PX163 | PX223 | PX323 | PX423 | PX523 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ExCal Models** | | | | PX84/E | PX124/E | PX224/E | PX163/E | PX223/E | PX323/E | PX423/E | PX523/E |
| **Approved Models*** | | | | | PX124M | PX224M | | | PX323M | | PX523M |
| Capacity (g) | 52/120 | 82 | 82/220 | 82 | 120 | 220 | 160 | 220 | 320 | 420 | 520 |
| Readability (g) | 0.00001/0.0001 | 0.00001 | 0.00001/0.0001 | 0.0001 | | | 0.001 | | | | |
| Approved Verification Interval e(g) | | | | | 0.001 | | | | 0.01 | | 0.01 |
| Repeatability (STDEV) (g) | 0.00002/0.0001 | 0.00002 | 0.00002/0.0001 | 0.0001 | | | 0.001 | | | | |
| Linearity (g) | ± 0.0001 | | | ±0.0002 | | | ±0.002 | | | | |
| Class (Approved Models)** | | | | | I | | | | II | | II |
| Stabilization Time (s) | 10 | | | 4 | | | 2 | | | | |
| Sensitivity Temperature Drift (PPM/K) | ± 0.8 | | | ±3 | | | ±8 | ±9 | ±3 | | |
| Typical Minimum Weight USP (USP, K=2, U=0.10%) | 20 mg | | | 200 mg | | | 2 g | | | | |
| Optimized Minimum Weight (USP, U=0.10%, K=2) SRP≤0.41d*** | 9 mg | | | 82 mg | | | 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), 1 custom unit | | | | | | | | | | |
| Units (Approved Models)**** | g, mg , ct | | | | | | | | | | |
| Applications | Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination | | | | | | | | | | |
| Platform Size | 80 mm | | | 90 mm | | | 120 mm | | | | |
| Power Supply | Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 –18VA<br>Power Output: 12 VDC 0.5A | | | | | | | | | | |
| Assembled Dimensions (W × D × H) | 209 × 321 × 309 mm | | | | | | | | | | |
| Communication | RS232 and USB | | | | | | | | | | |
| Operating Temperature Range | 15 °C to 25 °C | | | 10 °C to 30 °C | | | | | | | |
| Net Weight | 4.5 kg | | | | | | | | | | |
| Shipping Weight | 7 kg | | | | | | | | | | |
| Shipping Dimensions (W × D × H) | 507 × 387 × 531 mm | | | | | | | | | | |

*Approved models are all internal calibration models **Approved models only ***The value for SRP is the standard deviation for n replicate weighings (n≥10)
****Only valid for approved models

# *PX Series* Precision Balances

RS232 and USB device ports allow for easy connectivity to PCs and PLCs. Equipped with a security lock to prevent theft.


Large viewing angle with bright backlit LCD display.

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

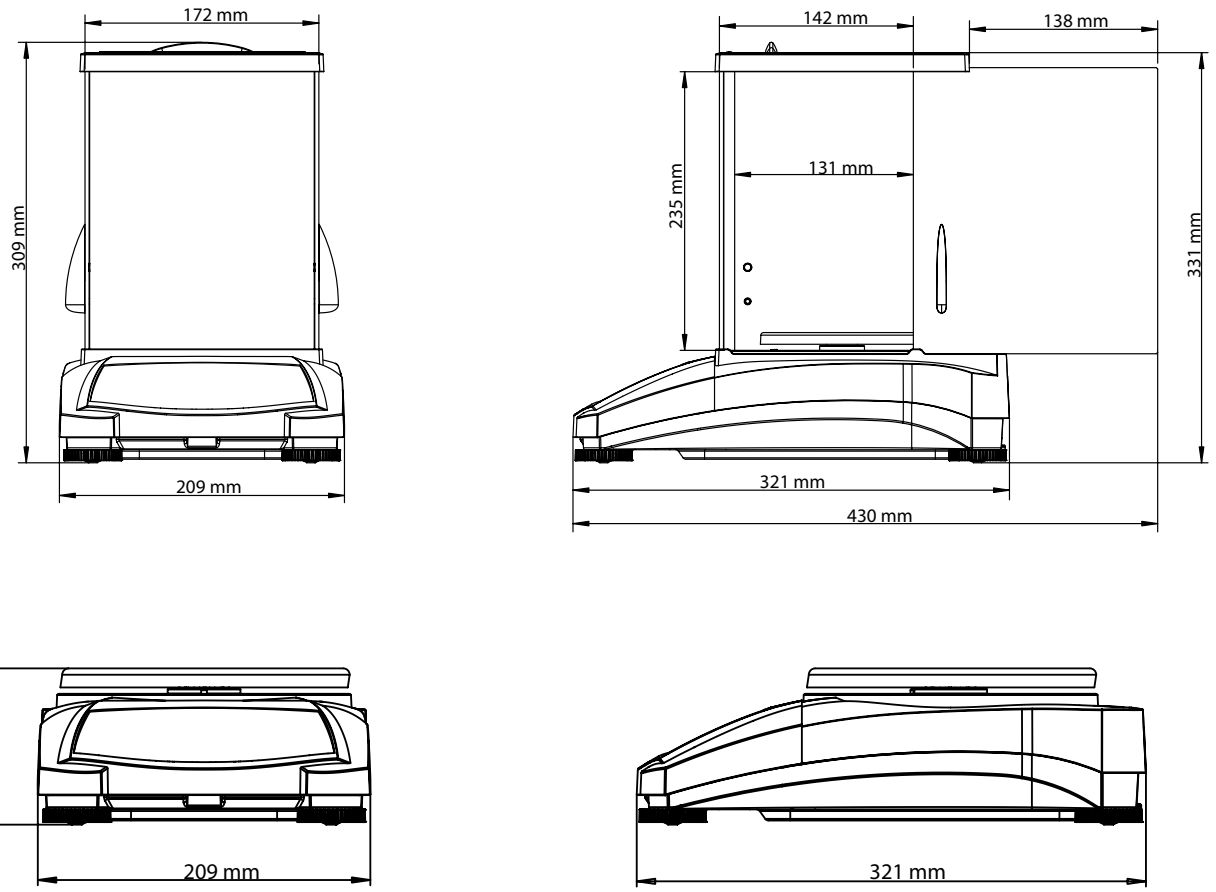

Four quick keys enable easy operation of multiple weighing modes.

| InCal™ Models | PX822 | PX1602 | PX2202 | PX3202 | PX4202 | PX5202 | PX2201 | PX4201 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ExCal Models | PX822/E | PX1602/E | PX2202/E | PX3202/E | PX4202/E | PX5202/E | PX2201/E | PX4201/E | PX6201/E | PX8201/E |
| Approved Models* | | | | PX3202M | | PX5202M | | PX4201M | | |
| Capacity (g) | 820 | 1600 | 2200 | 3200 | 4200 | 5200 | 2200 | 4200 | 6200 | 8200 |
| Readability (g) | 0.01 | | | | | | 0.1 | | | |
| Approved Verification Interval e(g) | | | | 0.1 | | 0.1 | | 0.1 | | |
| Repeatability (STDEV) (g) | 0.01 | | | | | | 0.1 | | | |
| Linearity (g) | ±0.02 | | | | | | ±0.2 | | | |
| Class (Approved Models)** | | | | II | | II | | II | | |
| Stabilization Time (s) | 1 | | | | | | | | | |
| Sensitivity Temperature Drift (PPM/K) | ±6 | | | ±3 | | | ±10 | | | |
| Typical Minimum Weight USP (USP, K=2, U=0.10%) | 20 g | | | | | | 200 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), 1 custom unit | | | | | | | | | |
| Units (Approved Models)**** | g, kg , ct | | | | | | | | | |
| Applications | Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination | | | | | | | | | |
| Platform Size | 180 mm | | | | | | | | | |
| Power Supply | Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 –18VA<br>Power Output: 12 VDC 0.5A | | | | | | | | | |
| Assembled Dimensions (W × D × H) | 209 × 321 × 98 mm | | | | | | | | | |
| Communication | RS232 and USB | | | | | | | | | |
| Operating Temperature Range | 10 °C to 30 °C | | | | | | | | | |
| Net Weight | 3.5 kg | | | | | | | | | |
| Shipping Weight | 5 kg | | | | | | | | | |
| Shipping Dimensions (W × D × H) | 550 × 385 × 291 mm | | | | | | | | | |

*Approved models are all internal calibration models **Approved models only ***The value for SRP is the standard deviation for n replicate weighings (n≥10)
****Only valid for approved models

# PX Series *Analytical and Precision Balances*

## 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 PAD7** | 80251396 |
| **Density Kit** | 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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*With offices throughout Europe, Asia, and Latin America*

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

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