



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 Include:

- 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.
- Pioneer features a second line display for additional information or guidance, a static removal bar for convenient grounding, and USB connectivity.

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

GLP/GMP and Password Protection

A real-time clock (RTC) keeps accurate time, even during power loss. GLP/GMP data output capability allows for sample name, project, user and balance IDs to be recorded, helping to meet traceability and compliance requirements.

Password protection reduces the potential risk of accidental or unauthorized changes in balance settings such as date and time, external calibration, print settings etc.



Multiple Application Modes

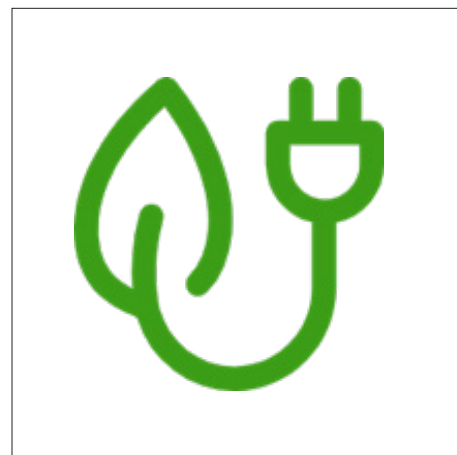
The PX features six standard modes including Weighing, Parts Counting, Percent Weighing, Dynamic Weighing, Density Determination and Formulation.

Equipped with USB and RS232 connectivity ports, the PX allows for easy communication with a PC, impact printer or a Zebra label printer.



Power Saving Functions

The PX features power saving functions that makes it environmentally friendly. The auto-off and other brightness setup will save the electricity when the balance is not used.

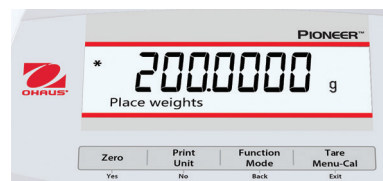


PIONEER™ Semi-Micro, Analytical and Precision Balances

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.

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

Four quick keys enable easy operation of multiple weighing modes.

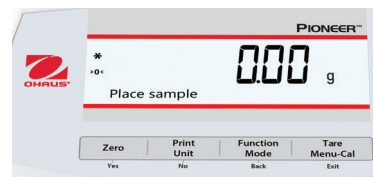


| InCal™ Models | PX85* | PX225D* | PX84 | PX124 | PX224 | PX163 | PX323 | PX623 |
|--|--|-----------|------------------|----------|---------|-------------------|----------|---------|
| ExCal Models | | | PX84/E | PX124/E | PX224/E | PX163/E | PX323/E | PX623/E |
| Capacity (g) | 82 | 82/220 | 82 | 120 | 220 | 160 | 320 | 620 |
| Readability d, Fine Range (g) | | 0.00001 | | - | | | - | |
| Readability d, Full Range (g) | 0.00001 | 0.0001 | | 0.0001 | | | 0.001 | |
| Repeatability (sd.), ≤5% of Full Load (g) | | 0.00001 | | 0.00008 | | | 0.0008 | |
| Repeatability (sd.), 5% of Full Load to Fine Range Max (g) | | 0.00002 | | - | | | - | |
| Repeatability (sd.), Fine Range Max to Full Range (g) | 0.00002 | 0.0001 | | 0.0001 | | | 0.001 | |
| Linearity deviation, Typical (g) | | ± 0.00006 | | ±0.00006 | | | ± 0.0006 | |
| Linearity deviation (g) | | ± 0.0001 | | ± 0.0002 | | | ± 0.002 | |
| Stabilization Time (s) | | 10 | | 3 | | | 2 | |
| Typical Minimum Weight USP (g), (USP K=2, U=0.10%) | | 0.02 | | 0.16 | | | 1.6 | |
| Min-Weight (optimal) (g) (USP, K=2, U=0.10%, SRP≤0.41d**) | | 0.0082 | | 0.082 | | | 0.82 | |
| Units | Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Troy Ounce, 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, Formulation | | | | | | | |
| Pan Size (∅) | 3.15 in. / 80 mm | | 3.54 in. / 90 mm | | | 4.72 in. / 120 mm | | |
| Draftshield Size | 6.8 × 5.2 × 8.1 in. / 172 × 131 × 205 mm | | | | | | | |
| 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 × 12.2 in. / 209 × 321 × 309 mm | | | | | | | |
| Operating Conditions | Operating conditions for ordinary lab application: 50° F to 86° F / +10 to 30° C (operability guaranteed between +5 and 40° 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 × D × H) | 21.7 × 15.2 × 11.5 in. / 507 × 387 × 531 mm | | | | | | | |

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

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

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.

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Four quick keys enable easy operation of multiple weighing modes.



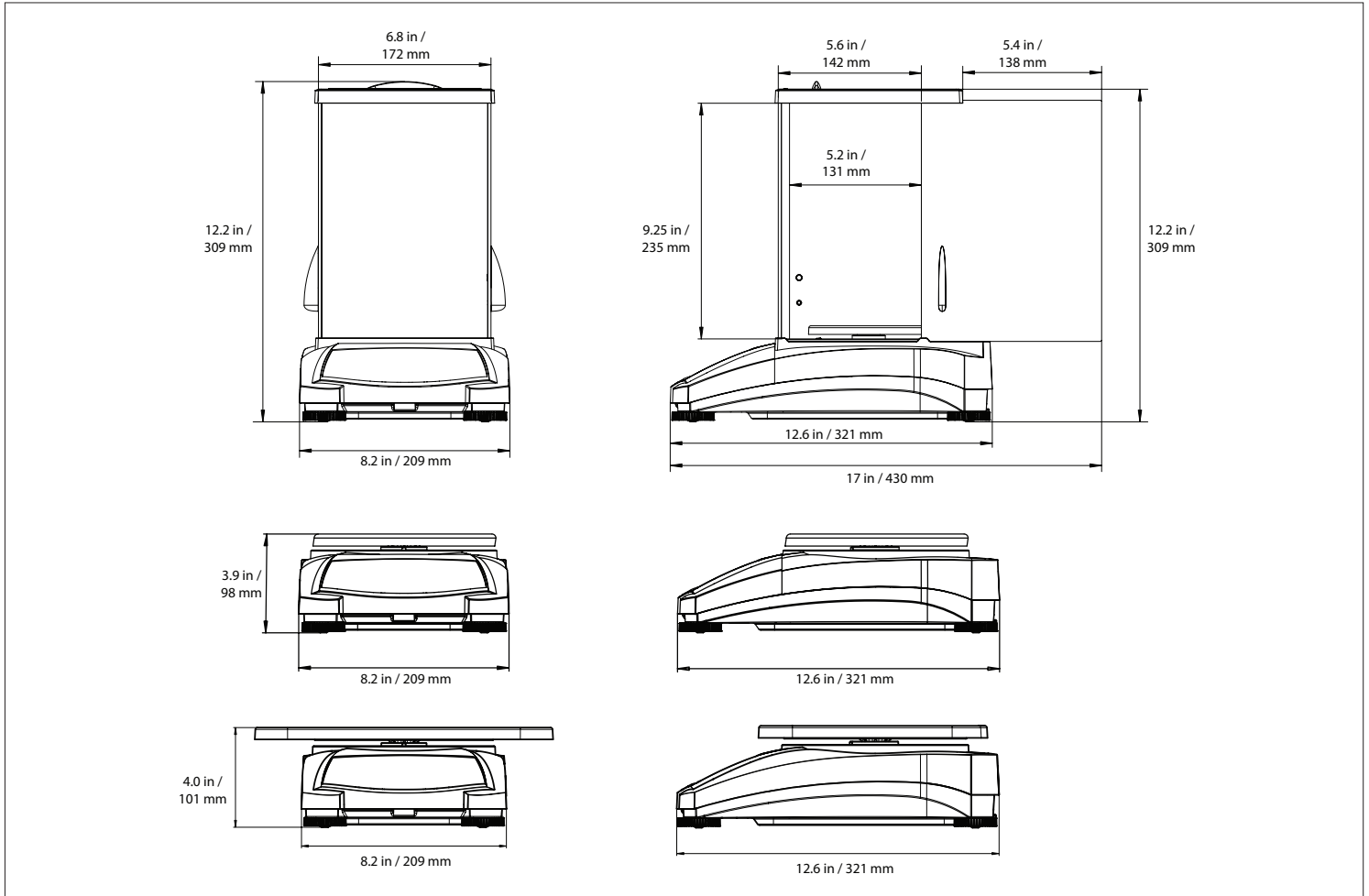
PX12001 and PX12001/E model

| InCal™ Models | PX1602 | PX2202 | PX3202 | PX4202 | PX6202 | PX2201 | PX4201 | PX12001 |
|--|--|----------|----------|----------|----------|----------|----------|---|
| ExCal Models | PX1602/E | PX2202/E | PX3202/E | PX4202/E | PX6202/E | PX2201/E | PX4201/E | PX12001/E |
| Capacity (g) | 1600 | 2200 | 3200 | 4200 | 6200 | 2200 | 4200 | 12000 |
| Readability (g) | 0.01 | | | | | 0.1 | | |
| Repeatability (sd.), ≤5% of Full Load (g) | 0.008 | | | | | 0.08 | | |
| Repeatability (sd.), 5% of Full Load to 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 | | | | | | | |
| 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, Troy Ounce, 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, Formulation | | | | | | | |
| Pan Size (Ø) | 7.09 in. / 180 mm | | | | | | | 7.6 x 9.8 in. / 193 x 248 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 x D x H) | 8.2 x 12.6 x 3.9 in. / 209 x 321 x 98 mm | | | | | | | 8.2 x 12.6 x 4.0 in. / 209 x 321 x 101 mm |
| Operating Conditions | Operating conditions for ordinary lab application: 50° F to 86° F / +10 to 30° C (operability guaranteed between +5 and 40° 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 x D x H) | 21.7 x 15.2 x 11.5 in. / 550 x 385 x 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, 11 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 |
| In-Use Cover | 30372546 |
| Printer SF40A | 30064203 |
| ION-100A | 30130302 |
| PX Full Housing In-Use Cover for 0.01g and 0.1g Model | 30759721 |
| ACC. Pan 12kg 300X225 PX | 30868077 |

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

