Pioneer®

Semi-Micro, Analytical and Precision Balances

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

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™ Models	PX85	PX225D	PX84	PX124	PX224	PX163	PX323	PX523
ExCal Models			**PX84/E**	**PX124/E**	**PX224/E**	**PX163/E**	**PX323/E**	**PX523/E**
Capacity (g)	82	82/220	84	120	220	160	320	520
Readability (g)	0.00001	0.00001/0.0001	0.0001			0.001		
Repeatability (STDEV) (g)	0.00003	0.00003/0.0001	0.0001			0.001		
Linearity (g)	± 0.0001		± 0.0002			± 0.002		
Stabilization Time (s)	10		4			2		
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 × 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	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 × D × H)	21.7 × 15.2 × 11.5 in. / 507 × 387 × 531 mm							

Pioneer® *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.

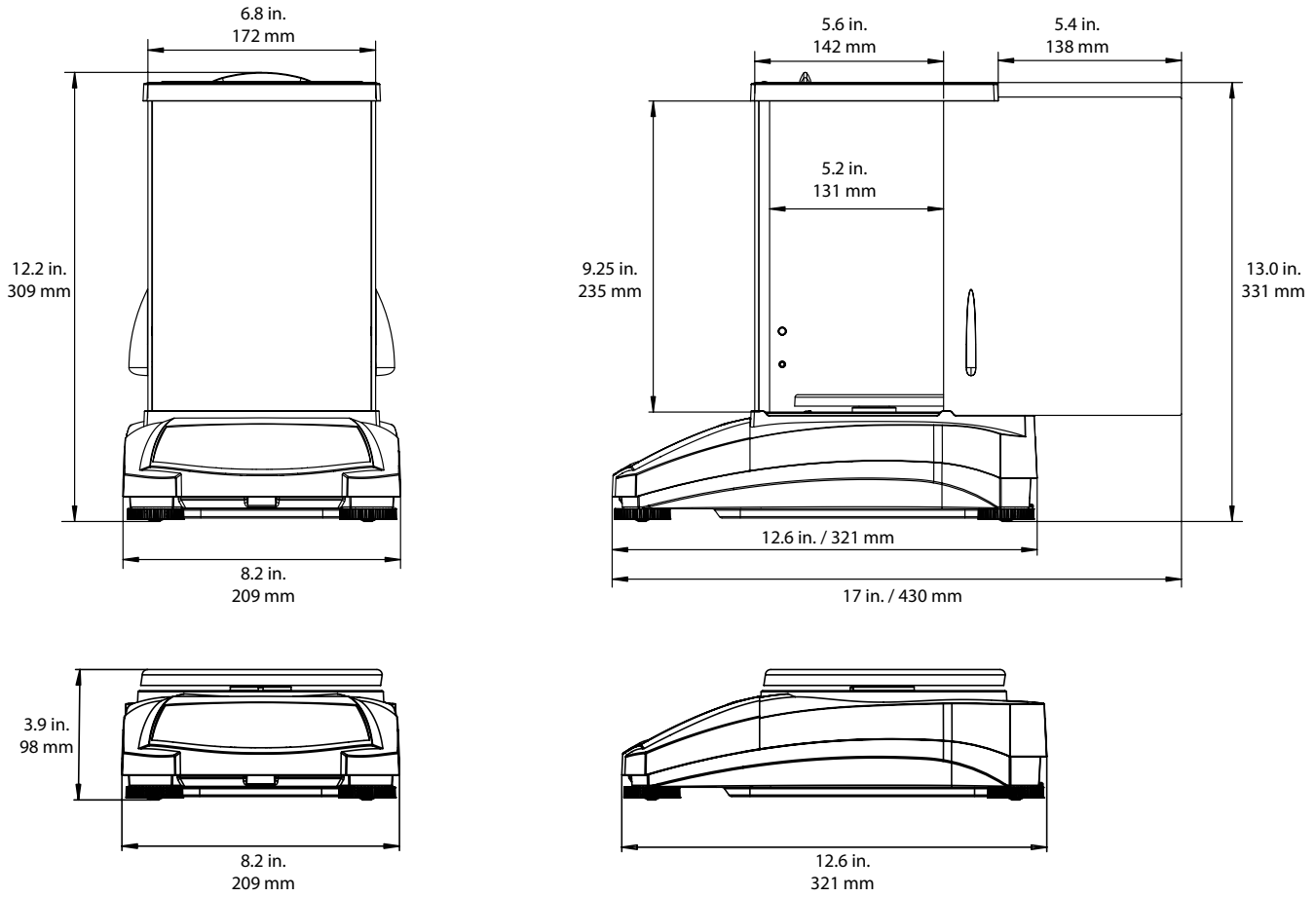
2 line display provides additional information or guidance prompts to the user.

Four quick keys enable easy operation of multiple weighing modes.

InCal™ Models	PX1602	PX2202	PX3202	PX4202	PX2201	PX4201
ExCal Models	**PX1602/E**	**PX2202/E**	**PX3202/E**	**PX4202/E**	**PX2201/E**	**PX4201/E**
Capacity (g)	1600	2200	3200	4200	2200	4200
Readability (g)	0.01				0.1	
Repeatability (STDEV) (g)	0.01				0.1	
Linearity (g)	± 0.02				± 0.2	
Stabilization Time (s)	1					
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					

Pioneer® *Semi-Micro, 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:** CSA

Accessories

Auxiliary Display PAD7	80251396
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	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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