



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, a capacity bar which displays the progress of the weighing, and USB and RS232 connectivity for easy communication.

PIONEER[®] Analytical Balances

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

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



Four quick keys enable easy operation of multiple weighing modes.

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



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



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	
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			3			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											
Pan Size	80 mm			90 mm			120 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 × 309 mm											
Communication	RS232 and USB											
Operating Temperature Range	Operating conditions for ordinary lab application: +10 to 30°C (operability guaranteed between +5 and 40°C)			Operating conditions for ordinary lab application: +10 to 30°C (operability guaranteed between +5 and 40°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

PIONEER® Precision Balances

RS232 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.

Capacity bar displays the weighing progress.



Four quick keys enable easy operation of multiple weighing modes.

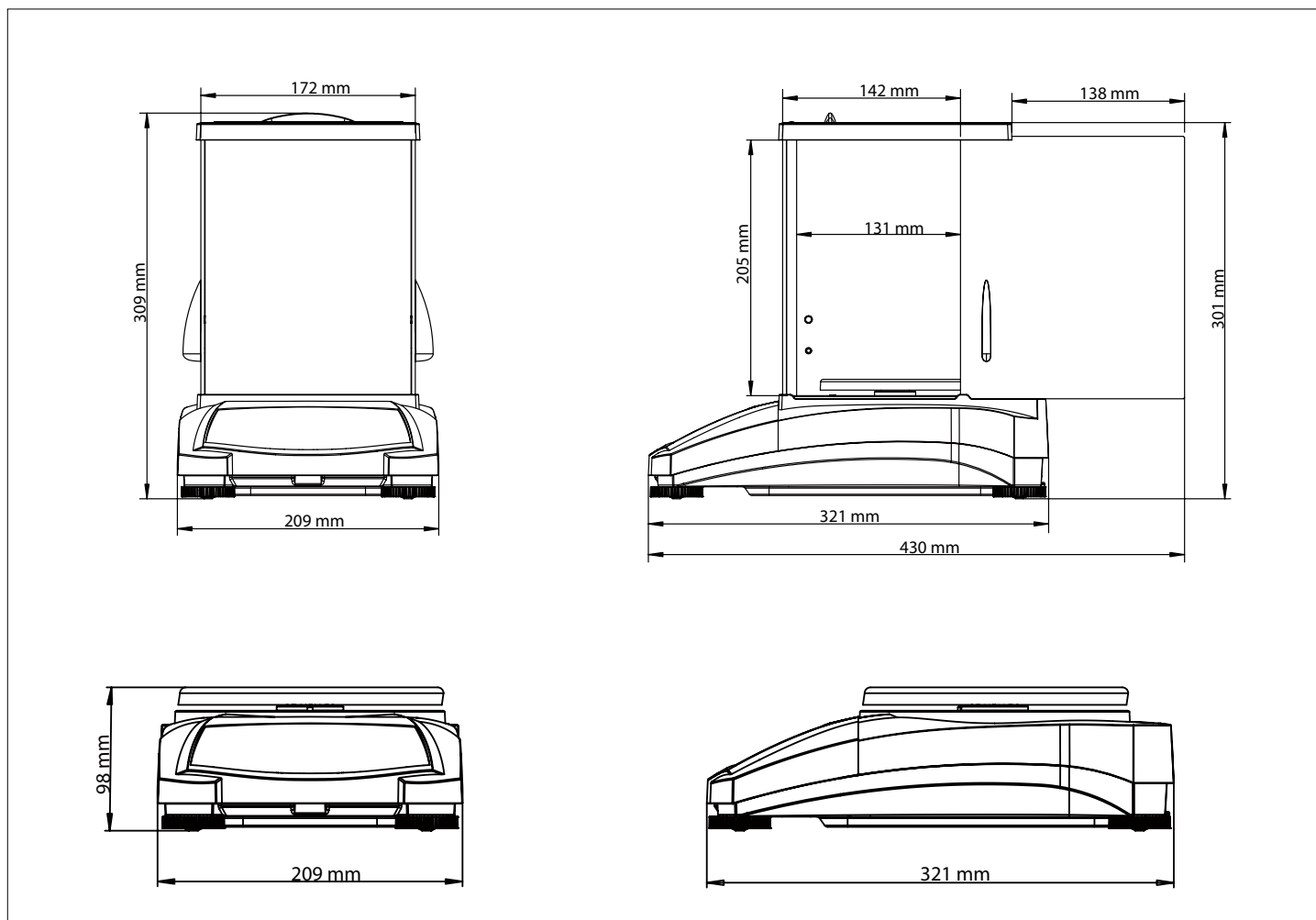
InCal™ Models	PX822	PX1602	PX2202	PX3202	PX4202	PX5202	PX2201	PX4201		
ExCal Models	PX822/E	PX1602/E	PX2202/E	PX3202/E	PX4202/E	PX5202/E	PX2201/E	PX4201/E	PX6201/E	PX8201/E
Capacity (g)	820	1600	2200	3200	4200	5200	2200	4200	6200	8200
Readability (g)	0.01						0.1			
Approved Verification Interval (e) (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									
Pan Size	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 to 30°C (operability guaranteed between +5 and 40°C)									
Net Weight	3.5 kg									
Shipping Weight	5 kg									
Shipping Dimensions (W × D × H)	550 × 385 × 291 mm									

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****Only valid for approved models

PIONEER[®] 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	30472064
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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The management system governing the manufacture of this product is ISO 9001:2015 certified.

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