



### ***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 educational 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 educational settings at an economical pricepoint.
- **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.

# Pioneer<sup>®</sup> 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 theft.



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.

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			0.01	
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			0.01	
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 (mm)	80			90			120				
Power Supply	Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 – 18VA Power Output: 12 VDC 0.5A										
Assembled Dimensions (mm) (W x D x H)	209 x 320 x 309										
Communication	RS232 and USB										
Operating Temperature Range	15°C to 25°C						10°C to 30°C				
Net Weight	10 lb / 4.5 kg										
Shipping Weight	15.4 lb / 7 kg										
Shipping Dimensions (W x D x H)	20 x 15 x 21 inch / 507 x 387 x 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 theft.



Large viewing angle with bright backli LCD display.

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

Four quick keys enable easy operation of multiple weighing modes.

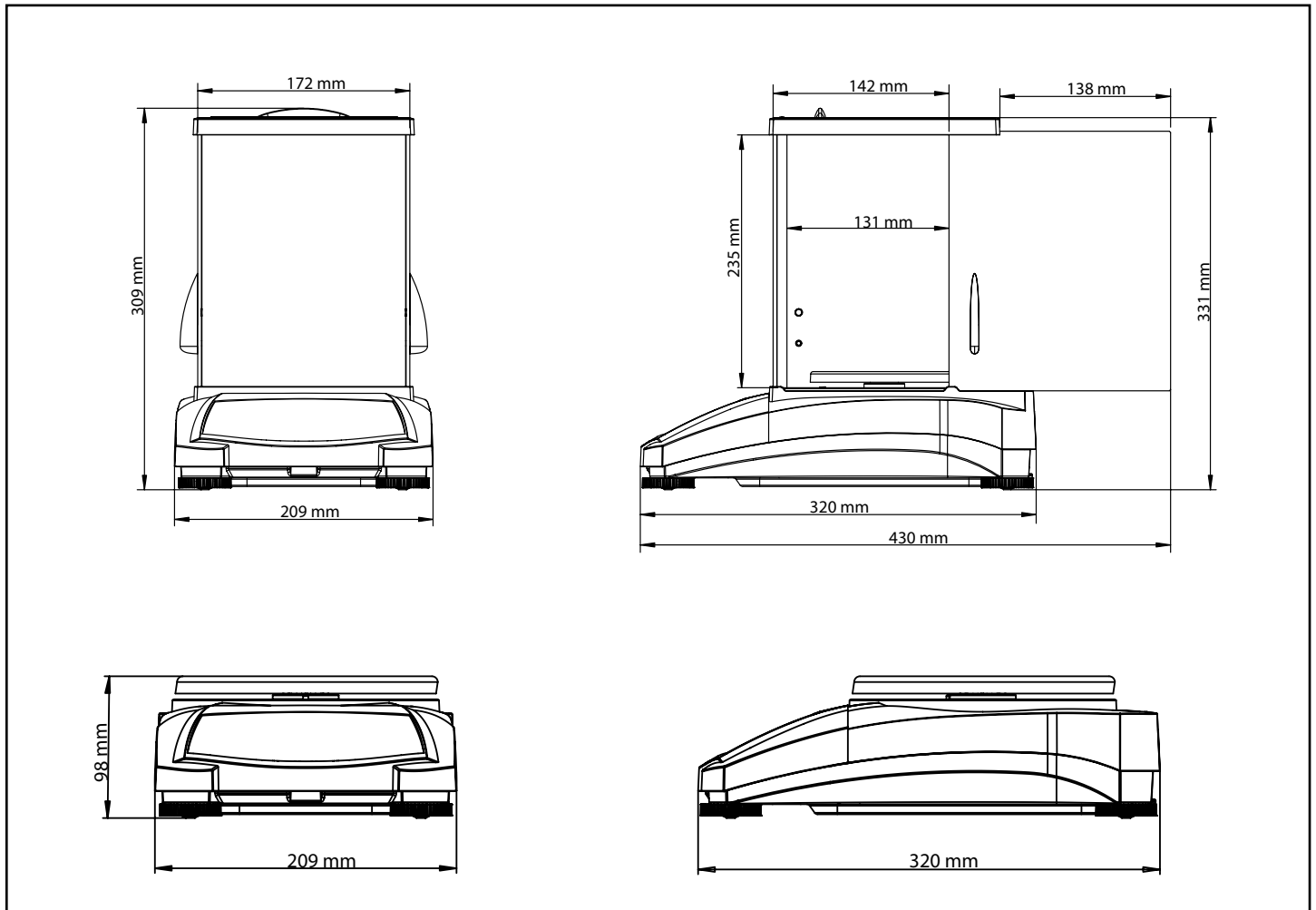
InCal™ Models	PX822	PX1602	PX2202	PX3202	PX4202	PX5202	PX2201	PX4201		
ExCal Models	PX822/E	PX1602/E	PX2202/E	PX3202/E	PX4202/E	PX5202/E	PX2201/E	PX4201/E	PX6201/E	PX8201/E
Approved Models*				PX3202M		PX5202M		PX4201M		
Capacity (g)	820	1600	2200	3200	4200	5200	2200	4200	6200	8200
Readability (g)	0.01						0.1			
Approved Verification Interval e(g)				0.1		0.1		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 (mm)	180									
Power Supply	Power Input: 100 – 240V ~ 200mA 50 – 60Hz 12 –18VA Power Output: 12 VDC 0.5A									
Assembled Dimensions (mm) (W x D x H)	209 x 320 x 98									
Communication	RS232 and USB									
Operating Temperature Range	10°C to 30°C									
Net Weight	7.7 lb / 3.5 kg									
Shipping Weight	11 lb / 5 kg									
Shipping Dimensions (W x D x H)	220 x 15 x 12 inch / 550 x 385 x 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

# Pioneer<sup>®</sup> 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 for Liquid 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 .....	30372547
Power Adapter for Balance .....	46001724

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