PIONEER®

Semi-Micro, Analytical and Precision Balances

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.
- PX features a second line display for additional information/guidance, & USB/RS232 connectivity for easy communication. Draftshield models feature a static removal (ESR) bar for convenient grounding.

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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™ Model	PX125D*	PX85*	PX225D*	PX124	PX224
ExCal Model	-	-	-	PX124/E	PX224/E
Approved Model**	PX125DM*	PX85M*	PX225DM*	PX124M	PX224M
Verification Interval (e) (g)	0,001				
Class (Approved Models)	I				
Capacity (g)	52/120	82	82/220	120	220
Readability (g)	0,00001/0,0001	0,00001	0,00001/0,0001	0,0001	
Repeatability (STDEV) (g)	0,00002/0,0001	0,00002	0,00002/0,0001	0,0001	
Linearity (g)	± 0,0001			± 0,0002	
Stabilization Time (s)	10			3	
Sensitivity Temperature Drift (PPM/K)	± 0,8			± 0,3	
Typical Minimum Weight USP (USP K=2, U=0,10%)	20 mg			200 mg	
Optimized Minimum Weight (USP, U=0,10%, K=2) SRP≤0,41d***	9 mg			82 mg	
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), Baht, 1 Custom unit				
Units (Approved Models)	g, mg, ct				
Applications	Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination				
Pan Size (Ø)	80 mm			90 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°C to 30°C (operability guaranteed between +5°C and 40°C).				
Net Weight	4,5 kg				
Shipping Weight	7 kg				
Shipping Dimensions (W × D × H)	507 × 387 × 531 mm				

*Automatic Calibration models **Approved models are all internal calibration models ***The value for SRP is the standard deviation for n replicate weighings (n≥10)

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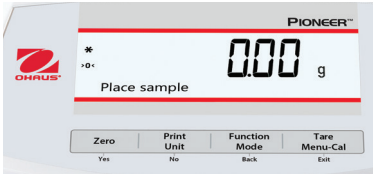
RS-232 and USB device ports allow for easy connectivity to PCs and PLCs. Equipped with a security lock to prevent unauthorized use.



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™ Model	PX323	PX523	PX623	PX3202	PX5202	PX6202	PX4201
ExCal Model	PX323/E	PX523/E	PX623/E	PX3202/E	PX5202/E	PX6202/E	PX4201/E
Approved Model*	PX323M	PX523M	-	PX3202M	PX5202M	-	PX4201M
Verification Interval (e) (g)	0,01		-	0,1		-	1
Class (Approved Models)**	II						
Capacity (g)	320	520	620	3200	5200	6200	4200
Readability (g)	0,001			0,01			0,1
Repeatability (STDEV) (g)	0,001			0,01			0,1
Linearity (g)	± 0,002			± 0,02			± 0,2
Stabilization Time (s)	2			1			
Sensitivity Temperature Drift (PPM/K)	± 3						± 10
Typical Minimum Weight USP (USP K=2, U=0,10%)	2 g			20 g			200 g
Optimized Minimum Weight (USP, U=0,10%, K=2) SRP≤0,41d***	0,82 g			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), Baht, 1 Custom unit						
Units (Approved Models)	g, mg, ct			g, kg, ct			
Applications	Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination						
Pan Size (Ø)	120 mm			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 × 309 mm			209 × 321 × 98 mm			
Communication	RS232 and USB						
Operating Temperature Range	Operating conditions for ordinary lab application: +10°C to 30°C (operability guaranteed between +5°C and 40°C).						
Net Weight	4,5 kg			3,5 kg			
Shipping Weight	7 kg			5 kg			
Shipping Dimensions (W × D × H)	507 × 387 × 531 mm			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)

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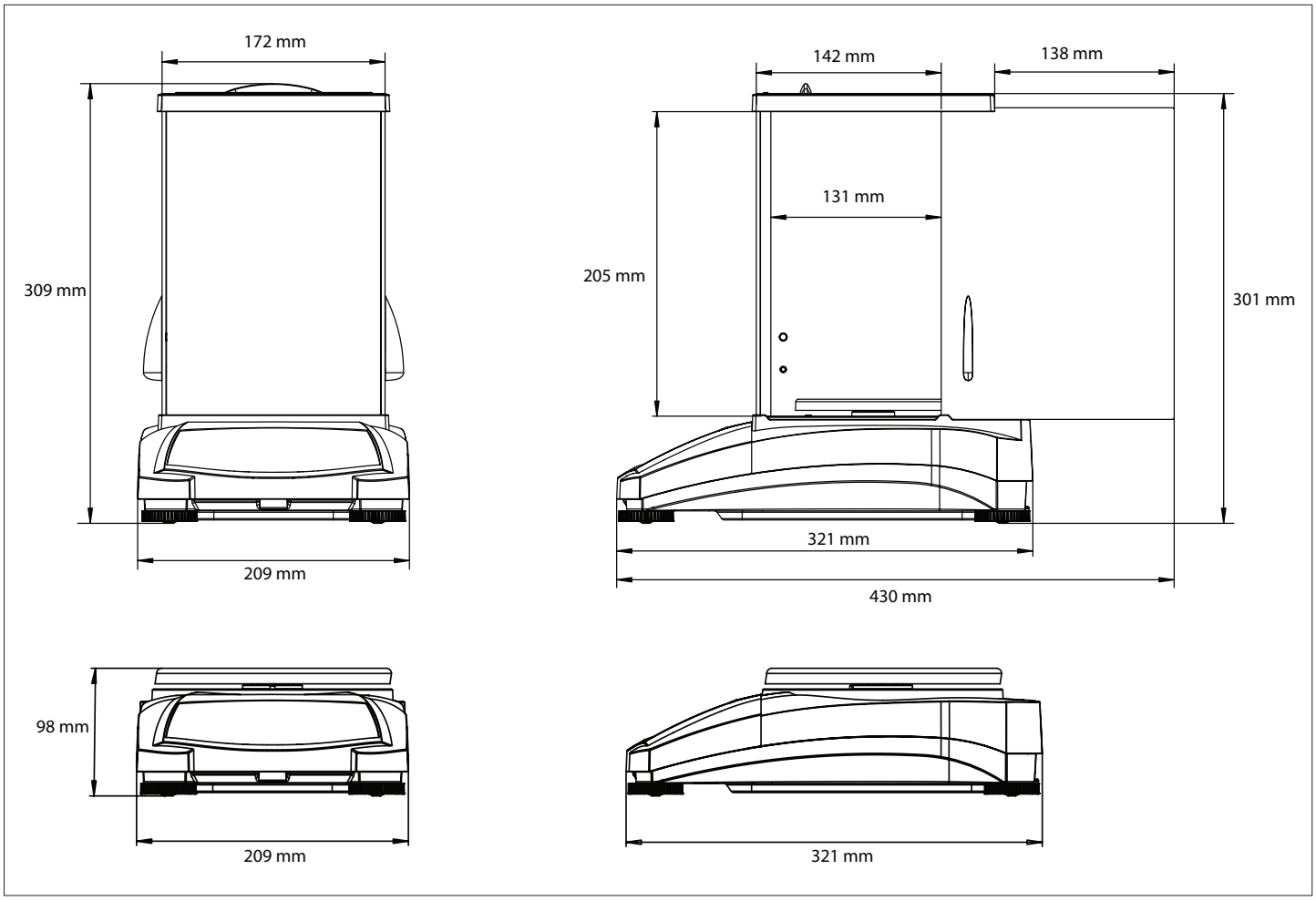
Outline Dimensions



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, four operating languages

Compliance

- **Metrology (PX...M… models only):** EN 45501; OIML R76
- **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

Accessories

Auxiliary Display **30472064**
Density Kit for Solids **80253384**
Sinker Glass for Density Determination **83034024**
Printer SF40A **30064202**
SF40A Ink Ribbon Cassette **12120798**
SF40A Paper Roll, 57,5 mm (2 Rolls) **12120799**
Security Device **80850043**
In-use Cover **30372546**
Dust Cover (for 0,1 mg and 1 mg models) **30093334**
Stand-alone Ionizer ION-100A **30095929**
RS232 Cable (9-pin) **00410024**
Interface Cable, USB (Type A to B) **83021085**

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

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