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.

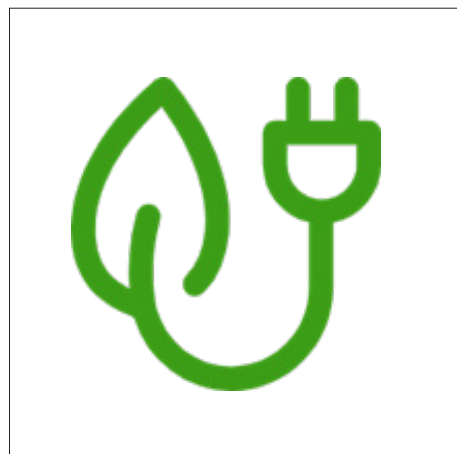## Multiple Application Modes

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.

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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.
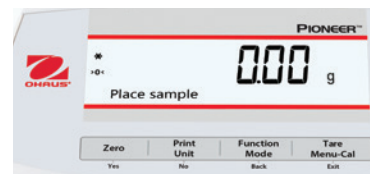
Four quick keys enable easy operation of multiple weighing modes.

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 d, Fine Range (g)	0.00001			-	
Readability d, Full Range (g)	0.0001	0.00001	0.0001	0.0001	
Repeatability (sd.), ≤5% of Full Load (g)	0.00001			0.00008	
Repeatability (sd.), 5% of Full Load to Fine Range Max (g)	0.00002			-	
Repeatability (sd.), Fine Range Max to Full Range (g)	0.0001	0.00002	0.0001	0.0001	
Linearity deviation, Typical (g)	± 0.00006				
Linearity deviation (g)	± 0.0001			± 0.0002	
Stabilization Time (s)	10			3	
Sensitivity Temperature Drift (PPM/K)	± 0,8			± 0,3	
Min-Weight (typical) (USP, K=2, U=0.10%)	20 mg			160 mg	
Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)***	8.2 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, Formulation				
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.

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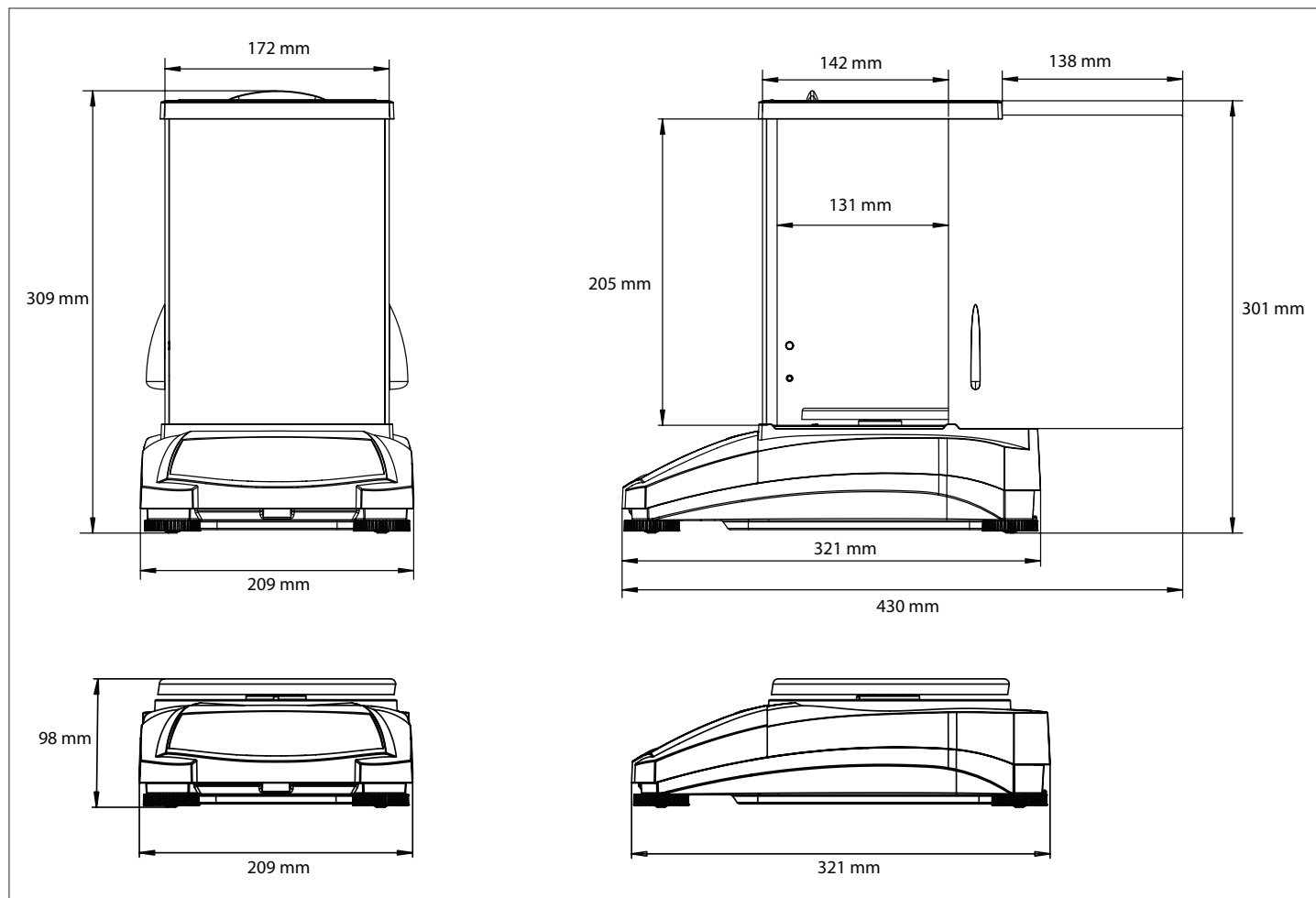
Four quick keys enable easy operation of multiple weighing modes.

InCal™ Model	PX323	PX623	PX3202	PX6202	PX4201
ExCal Model	PX323/E	PX623/E	PX3202/E	PX6202/E	PX4201/E
Approved Model*	PX323M	PX623M	PX3202M	PX6202M	PX4201M
Verification Interval (e) (g)	0.01		0.1		1
Class (Approved Models)**	II				
Capacity (g)	320	620	3200	6200	4200
Readability (g)	0.001		0.01		0.1
Repeatability (sd.), ≤5% of Full Load (g)	0.0008		0.008		0.08
Repeatability (sd.), 5% of Full Load to Full Range (g)	0.001		0.01		0.1
Linearity deviation, Typical (g)	± 0.0006		± 0.006		± 0.06
Linearity deviation (g)	± 0.002		± 0.02		± 0.2
Stabilization Time (s)	2		1		
Sensitivity Temperature Drift (PPM/K)	± 3				± 10
Min-Weight (typical) (USP, K=2, U=0.10%)	1.6 g		16 g		160 g
Min-Weight (optimal) (USP, K=2, U=0.10%, 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, Formulation				
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

172 mm
309 mm
209 mm
98 mm
209 mm

142 mm
138 mm
131 mm
205 mm
301 mm
321 mm
430 mm
321 mm

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

• **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
PX Full Housing In-Use Cover for 0.01g and 0.1g Model	30759721

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