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.

Standard Features:

- **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**
  PX features a second line display for additional information and guidance, along with 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.

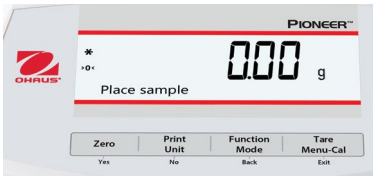
InCal™ Model	PX125D**	PX85**	PX225D**	PX84	PX124	PX224	PX163	PX223	PX323	PX423	PX523
ExCal Model	-			PX84/E	PX124/E	PX224/E	PX163/E	PX223/E	PX323/E	PX423/E	PX523/E
Capacity (g)	52/120	82	82/220	82	120	220	160	220	320	420	520
Readability (g)	0,00001 /0,0001	0,00001	0,00001 /0,0001	0,0001			0,001				
Repeatability (STDEV) (g)	0,00002 /0,0001	0,00002	0,00002 /0,0001	0,0001			0,001				
Linearity (g)	± 0,0001			±0,0002			±0,002				
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), Baht, 1 Custom unit										
Applications	Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination										
Pan Size (Ø)	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°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										

*The value for SRP is the standard deviation for n replicate weighings (n≥10) **Automatic Calibration models

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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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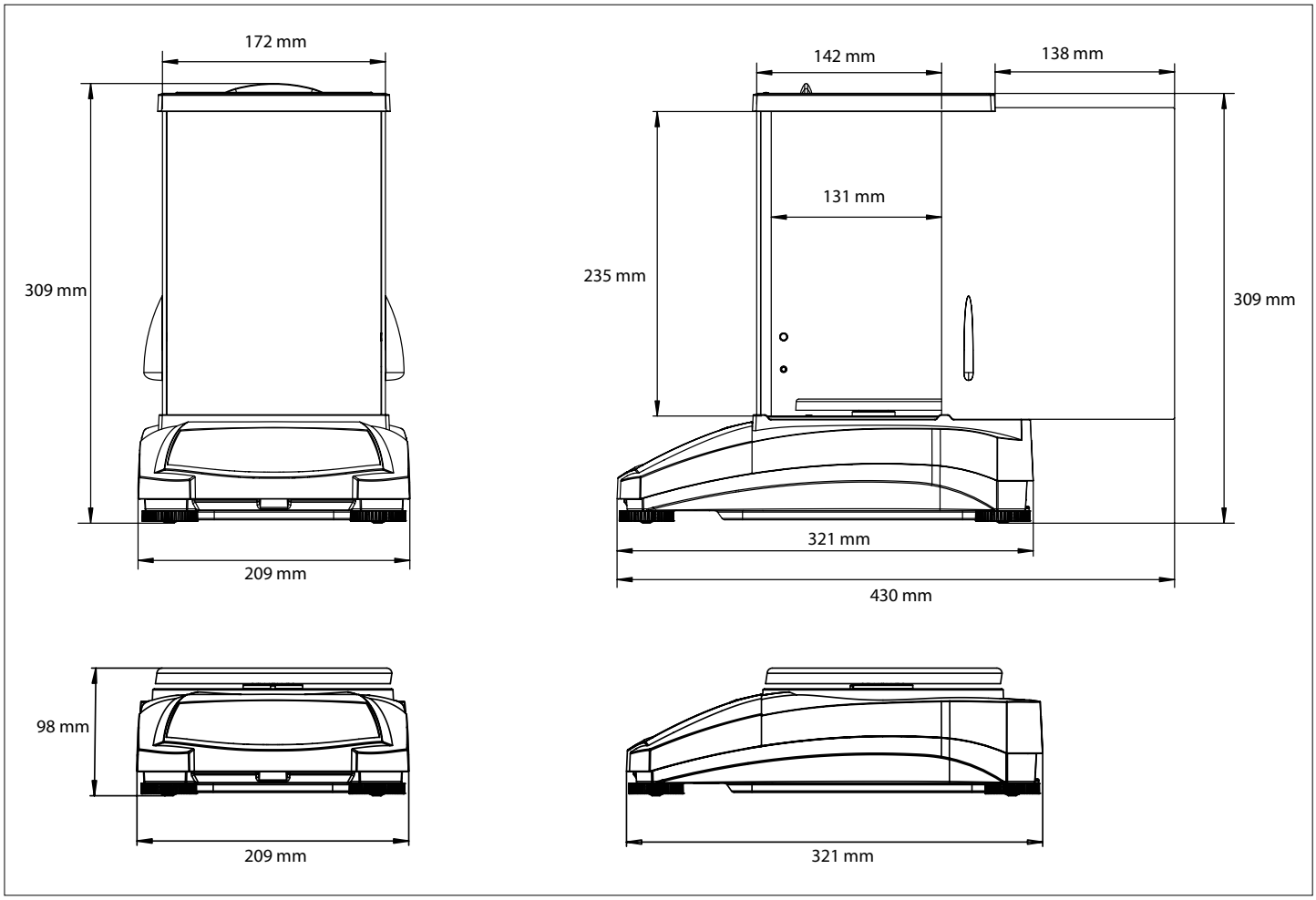
Four quick keys enable easy operation of multiple weighing modes.

InCal™ Model	PX822	PX1602	PX2202	PX3202	PX4202	PX5202	PX2201	PX4201	-	
ExCal Model	PX822/E	PX1602/E	PX2202/E	PX3202/E	PX4202/E	PX5202/E	PX2201/E	PX4201/E	PX6201/E	PX8201/E
Capacity (g)	820	1,600	2,200	3,200	4,200	5,200	2,200	4,200	6,200	8,200
Readability (g)	0.01						0.1			
Repeatability (STDEV) (g)	0.01						0.1			
Linearity (g)	± 0.02						± 0.2			
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), Baht, 1 Custom unit									
Applications	Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination									
Pan Size (Ø)	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°C to 30°C (operability guaranteed between +5°C and 40°C).									
Net Weight	3,5 kg									
Shipping Weight	5 kg									
Shipping Dimensions (W × D × H)	550 × 385 × 291 mm									

*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

- **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 for Solids	**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**

OHAUS Asia/Pacific Headquarters

7F, Block 33, 680 Guiping Road
Shanghai 200233
China

e-mail: APmarketing@ohaus.com
Tel: +86 21 64855408

www.ohaus.com

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

SAP Literature #

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