Pioneer®

Analytical and Precision Balances

Combining Economy and High Performance for Essential Weighing

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, and intuitively designed for intelligent operation with a second line display for additional information, and USB and RS232 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 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.

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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.

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.

Four quick keys enable easy operation of multiple weighing modes.

InCal™ Model	PX125D	PX85	PX225D	PX124	PX224	PX323	PX523
ExCal Model				PX124/E	PX224/E	PX323/E	PX523/E
Approved Model*	PX125DM	PX85M	PX225DM	PX124M	PX224M	PX323M	PX523M
Verification Interval (e) (g)	0,001			0,001		0,01	
Class (Approved Models)**	I					II	
Capacity (g)	52/120	82	82/220	120	220	320	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			4		2	
Sensitivity Temperature Drift (PPM/K)	± 0,8			± 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 (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	10 °C to 30 °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)

Pioneer® Precision Balances

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InCal™ Model	PX3202	PX5202	PX4201
ExCal Model	PX3202/E	PX5202/E	PX4201/E
Approved Model*	PX3202M	PX5202M	PX4201M
Verification Interval (e) (g)	0,1		1
Class (Approved Models)**	II		
Capacity (g)	3200	5200	4200
Readability (g)	0,01		0,1
Repeatability (STDEV) (g)	0,01		0,1
Linearity (g)	± 0,02		± 0,2
Stabilization Time (s)	1 s		
Sensitivity Temperature Drift (PPM/K)	± 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 (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	10 °C to 30 °C		
Net Weight	3,5 kg		
Shipping Weight	5 kg		
Shipping Dimensions (W × D × H)	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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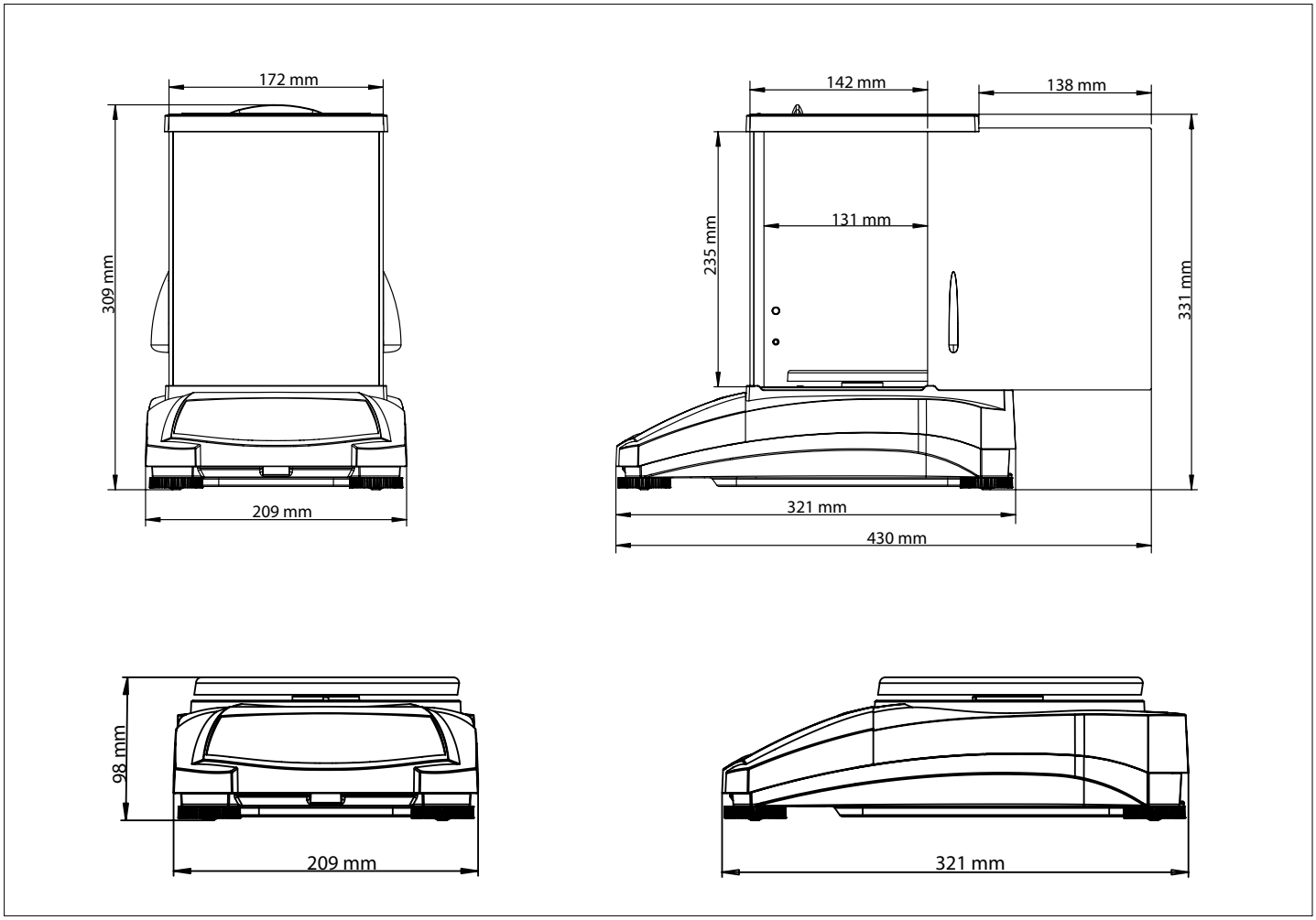
Dimensions



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, 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 PAD7	80251396
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 manufature of this product is ISO 9001:2015 certified.

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