

Adventurer® Analytical and Precision Balances

Model	AX124	AX224	AX324	AX223	AX423	AX523	AX622	AX1502	AX2202	AX4202	AX5202	AX4201	AX8201
External Calibration	AX124/E	AX224/E	—	AX223/E	AX423/E	AX523/E	AX622/E	AX1502/E	AX2202/E	AX4202/E	—	AX4201/E	AX8201/E
Certified Models	—	AX224N	—	AX223N/E	AX423N AX423N/E	AX523N/E	AX622N/E	AX1502N/E	AX2202N/E	AX4202N/E	—	—	AX8201N/E
Capacity (g)	120	220	320	220	420	520	620	1,520	2,200	4,200	5,200	4,200	8,200
Readability d (g)	0.0001			0.001			0.01			0.1			0.1
Verification Interval* e (g)	—	0.001	—	0.01			0.1			—	—	—	1
Class*	—	I	—	II			II			—	—	—	II
Repeatability std (g)	±0.0001			±0.001			±0.01			±0.1			
Linearity (g)	±0.0002			±0.002			±0.02			±0.2			
Stabilization Time (sec)	≤3			≤2			≤1.5			≤1.5			
Sensitivity Drift (ppm/°C)	1.5			3			3			1.9		9	
Typical Operating Range (g) (u=0.10%, k=2)	0.20g - 120g	0.20g - 220g	0.20g - 320g	2.0g - 220g	2.0g - 420g	2.0g - 520g	20.0g - 620g	20.0g - 1,520g	20.0g - 2,200g	20.0g - 4,200g	20.0g - 5,200g	200.0g - 4,200g	200.0g - 8,200g
Optimal Operating Range (g) (u=0.10%, k=2)	0.082g - 120g	0.082g - 220g	0.082g - 320g	0.82g - 220g	0.82g - 420g	0.82g - 520g	8.2g - 620g	8.2g - 1,520g	8.2g - 2,200g	8.2g - 4,200g	8.2g - 5,200g	82g - 4,200g	82g - 8,200g
Weighing Units	gram, milligram, mesgal, momme, Newton, ounce, pennyweight, Baht, carat, grain, pound, Tael (Hong Kong), Tael, (Singapore), Tael (Taiwan), tical, tola, troy ounce, custom (1)												
Weighing Units, Certified Models	—	ct, grain, g, mg, oz, ozt, dwt	—	—	ct, grain, g, mg, oz, dwt, kg	—	ct, grain, g, oz, ozt, dwt, lb, kg			—	—	—	ct, grain, g, oz, ozt, dwt, lb, kg
Weighing Applications	Weighing, Parts Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Formulation, Density Determination, Totalization, Display Hold												
Pan Size	Ø 3.5 in / 90 mm			Ø 5.1 in / 130 mm			6.9 x 7.7 in / 175 x 195 mm						
Calibration	All models feature external calibration. Models feature AutoCal™ internal calibration, except for AX.../E models												
Tare Range	To capacity by subtraction												
Power Requirements	AC Adapter Input: 100-240 VAC 0.3A 50-60 Hz AC Adapter Output: 12 VDC 0.84A												
Display Type	Full-Color Touchscreen WQVGA Graphic LCD												
Display Size	4.3 in / 109 mm (diagonal)												
Base Housing (WxHxD)	13.93 x 13.39 x 9.05 in / 354 x 340 x 230 mm						13.93 x 3.94 x 9.05 in / 354 x 100 x 230 mm						
Communication	RS232, USB Device, USB Host												
Temperature Range	50°F to 86°F/10°C to 30°C												
Humidity Range	Maximum relative humidity 80 % for temperatures up to 86°F/30°C												
Storage Conditions	14°F/-10°C to 140°F/60°C at 10% to 90% relative humidity, non-condensing												
Shipping Dimensions	20.0 x 15.4 x 20.9 in / 507 x 387 x 531 mm						22.0 x 15.5 x 11.9 in / 557 x 392 x 301 mm						
Net Weight	11.3 lb / 5.1 kg			12.8 lb / 5.8 kg			10.2 lb / 4.6 kg			10.2 lb / 4.6 kg		8.4 lb / 3.8 kg	
Shipping Weight	17.2 lb / 7.8 kg			18.8 lb / 8.5 kg			14.4 lb / 6.5 kg			14.4 lb / 6.5 kg		12.6 lb / 5.7 kg	

*Certified models only

Additional Features

RS232 interface, integral weigh below hook, full housing in-use cover, removable stainless steel pan, die-cast metal bottom housing, security bracket, illuminated up-front level indicator, four adjustable feet, software lockout menus, stability indicator, software overload/underload indicators, user selectable environmental settings, audible indicator, user selectable brightness settings, auto dim, touchscreen calibration, auto tare, user selectable operating language (nine)

Approvals

Metrology: NIST Handbook 44, Measurement Canada Weights and Measures Regulations (Class I, nmax 220000; Class II, nmax 52000)

Product Safety: CSA C22.2 No. 61010-1, UL 61010-1, IEC 61010-1

Electromagnetic Compatibility: FCC Part 15 Class A, ICES-001 Class A, IEC 61326-1 (emissions Class B, immunity Industrial requirements)

Accessories

SF40A Impact Printer	30045641
Auxiliary Display	80251396
Density Determination Kit	80253384
Cable, USB Interface (Type A to B)	83021085
Security Device (Laptop Lock)	80850043
RS232 Cable, PC 25 Pin	80500524
RS232 Cable, PC 9 Pin	80500525

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