EXPLORER™

Analytical and Precision Balances



Built for Precision, Powered by Innovation

The new Explorer (EXR series) offers an intuitive interface, outstanding weighing performance, and an environmentally friendly design. The new generation Explorer establishes a groundbreaking standard for laboratory operations.

Unique Features:

- **High Performance Weighing**

  Achieve consistent results with built-in automatic calibration, touchless sensors and a ventilated weighing pan. Get reliable data with the digital high-speed load cell.

- **Refined User Experience**

  An intuitive 7-inch glass touchscreen, digital leveling, and simplified data management is easy to use. With an effortless installation and chemical-protective design it ensures efficiency and comfort.

- **Effective Communication Options**

  Supports HID connection to PC or keyboard without drivers, and provides 2-way communication with RS232, USB, Ethernet, Bluetooth, and WiFi for seamless data transfer.

EXPLORER™ *Analytical Balances*

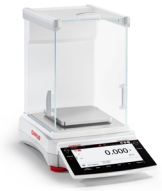
Specifications



Model	EXR124 EXR124M	EXR224 EXR224M	EXR324 EXR324M
Capacity	120 g	220 g	320 g
Readability d	0.1 mg	0.1 mg	0.1 mg
Repeatability (sd.), ≤5% of Full Load Typical	0.05 mg	0.05 mg	0.05 mg
Repeatability (sd.), 5% of Full Load to Full Range	0.1 mg	0.1 mg	0.1 mg
Linearity Deviation Typical	0.06 mg	0.06 mg	0.06 mg
Linearity Deviation	0.2 mg	0.2 mg	0.2 mg
Verification Interval, e (EXP…M.. models only)	1 mg	1 mg	1 mg
Approval Class (EXP…M.. models only)	Class I	Class I	Class I
Span Calibration Points	25g, 50g, 75g, 100g	50g, 100g, 150g, 200g	100g, 150g, 200g, 300g
Weighing Units	g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, Custom 1, Custom 2		
Weighing Units (EXR…M.. model only)	g, mg, ct		
Applications	Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold		
Stabilization Time (typical)	2 seconds		
Sensitivity Temperature Drift (ppm/°C)	1.5		
Min-Weight (typical) (K=2, U=1%)	10 mg		
Min-Weight (typical) (USP, K=2, U=0.10%)	100 mg		
Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)	82 mg		
Terminal Display	7-inch TFT 16.7M Color Touch Screen with Glass Overlay		
Display Resolution	800 x 480 Pixels		
Communication	USB Host (Type A) x 2, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle		
Leveling System	2 Leveling Feet with Digital Leveling Bubble		
Power Supply	AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz AC Adapter Output: 12 VDC 1.5A		
Weighing Pan Size	Square Pan 90mm x 90mm		
Touchless Sensor	2 Touchless Sensors on the terminal		
Draftshield with anti-static coating	Standard		
Terminal Status Lights	Standard, 7-color Selectable		
Assembled Dimensions (W x D x H)	230mm x 393mm x 370mm		
Shipping Dimensions (W x D x H)	415mm x 630mm x 561mm		
Net Weight	7.4 kg		
Shipping Weight	10.2 kg		

EXPLORER™ *Precision Balances*

Specifications



Model	EXR223	EXR423	EXR623	EXR1203
	EXR223M	EXR423M	EXR623M	EXR1203M
Capacity	220 g	420 g	620 g	1200 g
Readability d	1mg	1mg	1mg	1mg
Repeatability (sd.), ≤5% of Full Load Typical	0.7 mg	0.7 mg	0.7 mg	0.7 mg
Repeatability (sd.), 5% of Full Load to Full Range	1 mg	1 mg	1 mg	1 mg
Linearity Deviation Typical	0.6 mg	0.6 mg	0.6 mg	0.6 mg
Linearity Deviation	2 mg	2 mg	2 mg	2 mg
Verification Interval, e (EXP…M.. models only)	10mg	10mg	10mg	10mg
Approval Class (EXP…M.. models only)	Class II	Class II	Class II	Class I
Span Calibration Points (g)	50g, 100g, 150g, 200g	100g, 200g, 300g, 400g	300g, 400g, 500g, 600g	400g, 600g, 800g, 1000g
Weighing Units	g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, Custom 1, Custom 2, lb (models with capacity ≥ 620 g), kg (models with capacity ≥ 1200 g)			
Weighing Units (EXR…M.. model only)	g, mg, ct, kg (models with capacity ≥ 1200 g)			
Applications	Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold			
Stabilization Time (typical)	≤ 1.5 seconds			
Sensitivity Temperature Drift (ppm/°C)	3			
Min-Weight (typical) (K=2, U=1%)	0.14 g			
Min-Weight (typical) (USP, K=2, U=0.10%)	1.4 g			
Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)	0.82 g			
Terminal Display	7-inch TFT 16.7M Color Touch Screen with Glass Overlay			
Display Resolution	800 x 480 Pixels			
Communication	USB Host (Type A) x 2, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle			
Leveling System	2 Leveling Feet with Digital Leveling Bubble			
Power Supply	AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz AC Adapter Output: 12 VDC 1.5A			
Weighing Pan Size	Square Pan 130mm x 130mm			
Touchless Sensor	2 Touchless Sensors on the terminal			
Draftshield with anti-static coating	Standard			
Terminal Status Lights	Standard, 7-color Selectable			
Assembled Dimensions (W x D x H)	230mm x 393mm x 370mm			
Shipping Dimensions (W x D x H)	415mm x 630mm x 561mm			
Net Weight	7.4 kg			
Shipping Weight	10.2 kg			

EXPLORER™ *Precision Balances*

Specifications



Model	EXR2202	EXR4202	EXR6202	EXR8202	EXR12202
	EXR2202M	EXR4202M	EXR6202M	EXR8202M	EXR12202M
Capacity	2200 g	4200 g	6200 g	8200 g	12200 g
Readability d	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Repeatability (sd.), ≤5% of Full Load Typical	0.007 g	0.007 g	0.007 g	0.007 g	0.007 g
Repeatability (sd.), 5% of Full Load to Full Range	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Linearity Deviation Typical	0.006 g	0.006 g	0.006 g	0.006 g	0.006 g
Linearity Deviation	0.02 g	0.02 g	0.02 g	0.02 g	0.02 g
Verification Interval, e (EXP…M.. models only)	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g
Approval Class (EXP…M.. models only)	Class II	Class II	Class II	Class II	Class I
Span Calibration Points	500g,1000g,1500g, 2000g	1000g, 2000g, 3000g, 4000g	2000g, 3000g, 4000g, 6000g	2000g, 4000g, 6000g, 8000g	6000g, 8000g, 10000g, 12000g
Weighing Units	g, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, lb, kg Custom 1, Custom 2				
Weighing Units (EXR…M.. model only)	g, ct, kg				
Applications	Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold				
Stabilization Time (typical)	≤ 1 second				
Sensitivity Temperature Drift (ppm/°C)	3				
Min-Weight (typical) (K=2, U=1%)	1.4 g				
Min-Weight (typical) (USP, K=2, U=0.10%)	14 g				
Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)	8.2 g				
Terminal Display	7-inch TFT 16.7M Color Touch Screen with Glass Overlay				
Display Resolution	800 x 480 Pixels				
Communication	USB Host (Type A) x 2, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle				
Leveling System	2 Leveling Feet with Digital Leveling Bubble				
Power Supply	AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz AC Adapter Output: 12 VDC 1.5A				
Weighing Pan Size	Trapezoid Pan 178mm x 201mm				
Touchless Sensor	2 Touchless Sensors on the terminal				
Terminal Status Lights	Standard, 7-color Selectable				
Assembled Dimensions (W x D x H)	229mm x 391mm x 95mm				
Shipping Dimensions (W x D x H)	385mm x 590mm x 311mm				
Net Weight	4.9 kg				
Shipping Weight	7.1 kg				

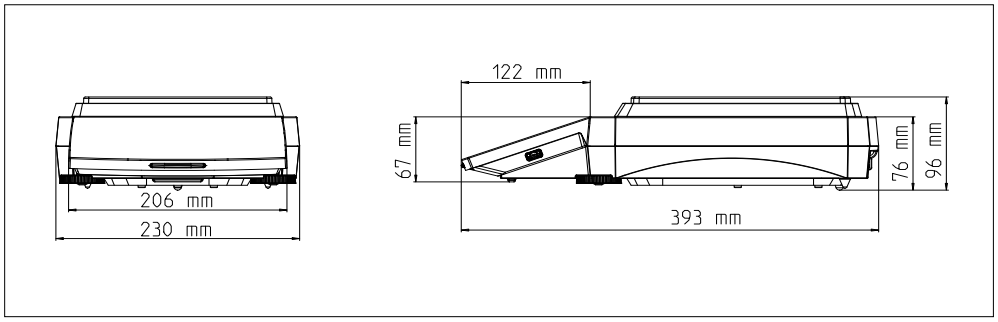
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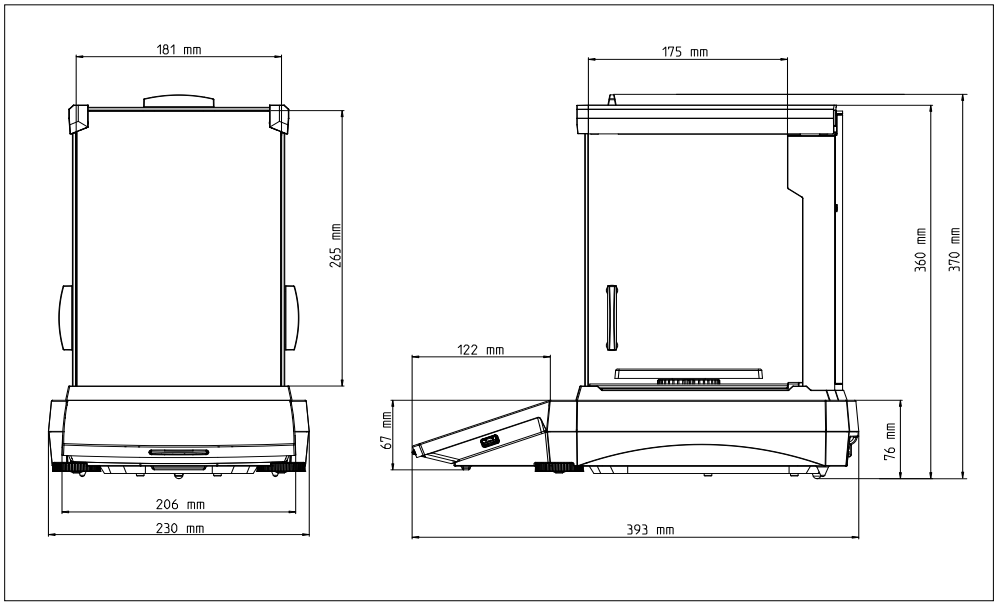
Specifications



Model	EXR6201	EXR8201	EXR10201
	EXR6201M	EXR8201M	EXR10201M
Capacity	6200 g	8200 g	10200 g
Readability d	0.1 g	0.1 g	0.1 g
Repeatability (sd.), ≤5% of Full Load Typical	0.07 g	0.07 g	0.07 g
Repeatability (sd.), 5% of Full Load to Full Range	0.1 g	0.1 g	0.1 g
Linearity Deviation Typical	0.06 g	0.06 g	0.06 g
Linearity Deviation	0.1 g	0.1 g	0.1 g
Verification Interval, e (EXP…M.. models only)	0.1 g	0.1 g	0.1 g
Approval Class (EXP…M.. models only)	Class II	Class II	Class I
Span Calibration Points	2000g, 3000g, 4000g, 6000g	2000g, 4000g, 6000g, 8000g	2500g, 5000g, 7500g, 10000g
Weighing Units	g, ct, N, oz, ozt, Grain, dwt, mo, msg, tl H, tl S, tl T, tcl, tola, baht, lb, kg, Custom 1, Custom 2		
Weighing Units (EXR…M.. model only)	g, ct, kg		
Applications	Basic Weighing, Parts Counting, Check Counting, Percent Weighing, Check Weighing, Dynamic Weighing, Totalization, Formulation, Differential, Density Determination, Peak Hold		
Stabilization Time (typical)	≤ 1 second		
Sensitivity Temperature Drift (ppm/°C)	5	3	3
Min-Weight (typical) (K=2, U=1%)	14 g		
Min-Weight (typical) (USP, K=2, U=0.10%)	140 g		
Min-Weight (optimal) (USP, K=2, U=0.10%, SRP≤0.41d)	82 g		
Terminal Display	7-inch TFT 16.7M Color Touch Screen with Glass Overlay		
Display Resolution	800 x 480 Pixels		
Communication	USB Host (Type A) x 2, USB Device (Type C) x 1 Ethernet (RJ45) x 1, RS232 x 1; Optional Wi-Fi, Bluetooth Dongle		
Leveling System	2 Leveling Feet with Digital Leveling Bubble		
Power Supply	AC Adapter Input: 100-240 VAC 0.5A 50-60 Hz AC Adapter Output: 12 VDC 1.5A		
Weighing Pan Size	Trapezoid Pan 178mm x 201mm		
Touchless Sensor	2 Touchless Sensors on the terminal		
Terminal Status Lights	Standard		
Assembled Dimensions (W x D x H)	230mm x 393mm x 96mm		
Shipping Dimensions (W x D x H)	385mm x 590mm x 311mm		
Net Weight	4.9 kg		
Shipping Weight	7.1 kg		

Outline Dimensions





Compliance

- **Metrology:** OIML R76, EN 45501
- **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

Accessories

	**Item No.**	30944359
	Accessory Name	Bluetooth Printer, Impact, SF40A/BT
	**Item No.**	30064202
	Accessory Name	Printer, Impact, SF40A
	**Item No.**	31059239
	Accessory Name	BT dongle and Wi-Fi dongle LM842
	**Item No.**	30095929
	Accessory Name	Static Ionizer, ION-100A
	**Item No.**	30093334
	Accessory Name	Dust Cover, Balance with Draft Shield
	**Item No.**	80253384
	Accessory Name	Density Kit, Solids
	Item No.	83034024
	Accessory Name	Sinker, Glass, Liquid, Density Kit
	**ItemNo.**	12120799
	Accessory Name	SF40A Paper roll (57,5mm 2pcs)
	**Item No.**	30529322
	Accessory Name	SF40A Ink Ribbon Cassette
	**Item No.**	31059237
	Accessory Name	Weighing Kit

	**Item No.**	31141735
	Accessory Name	Holder for Filter Paper

	**Item No.**	31141736
	Accessory Name	Holder for Tube

	**Item No.**	31141737
	Accessory Name	Holder for Syringe

	**Item No.**	31141788
	Accessory Name	Holder for Round Bottom Flask (max 250ml)

	**Item No.**	31129892
	Accessory Name	In-Use Cover DS, EXR

	**Item No.**	31129893
	Accessory Name	In-Use Cover Non-DS, EXR

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

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