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.

imLab
SCIENTIFIC EQUIPMENT
FOR LABORATORY & INDUSTRY

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EXPLORER™ *Analytical Balances*

Specifications

Model	EXR124	EXR224	EXR324
	EXR124M	EXR224M	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	25 g, 50 g, 75 g, 100 g	50 g, 100 g, 150 g, 200 g	100 g, 150 g, 200 g, 300 g
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	800×480 Pixels		
Communication	USB Host (Type A)×2, USB Device (Type C)×1, Ethernet (RJ45)×1, RS232×1; 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 90 mm×90 mm		
Touchless Sensor	2 Touchless Sensors on the terminal		
Draftshield with anti-static coating	Standard		
Terminal Status Lights	Standard, 7-color Selectable		
Assembled Dimensions (W×D×H)	230 mm×393 mm×370 mm		
Shipping Dimensions (W×D×H)	415 mm×630 mm×561 mm		
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	1 200 g
Readability d	1 mg	1 mg	1 mg	1 mg
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)	10 mg	10 mg	10 mg	10 mg
Approval Class (EXP…M.. models only)	Class II	Class II	Class II	Class I
Span Calibration Points	50 g, 100 g, 150 g, 200 g	100 g, 200 g, 300 g, 400 g	300 g, 400 g, 500 g, 600 g	400 g, 600 g, 800 g, 1 000 g
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 ≥ 1 200 g)			
Weighing Units (EXR…M.. model only)	g, mg, ct, kg (models with capacity ≥ 1 200 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	800×480 Pixels			
Communication	USB Host (Type A)×2, USB Device (Type C)×1, Ethernet (RJ45)×1, RS232×1; 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 130 mm×130 mm			
Touchless Sensor	2 Touchless Sensors on the terminal			
Draftshield with anti-static coating	Standard			
Terminal Status Lights	Standard, 7-color Selectable			
Assembled Dimensions (W×D×H)	230 mm×393 mm×370 mm			
Shipping Dimensions (W×D×H)	415 mm×630 mm×561 mm			
Net Weight	7,4 kg			
Shipping Weight	10,2 kg			

EXPLORER™ *Precision Balances*

Specifications

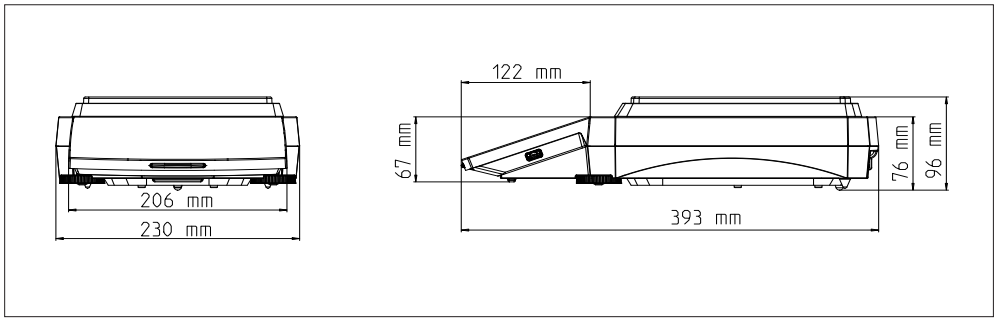
Model	EXR2202 EXR2202M	EXR4202 EXR4202M	EXR6202 EXR6202M	EXR8202 EXR8202M	EXR12202 EXR12202M
Capacity	2 200 g	4 200 g	6 200 g	8 200 g	12 200 g
Readability d	0,01 g	0,01 g	0,01 g	0,01 g	0,01 g
Repeatability (sd.), ≤5% of Full Load Typical	0,007 g	0,007 g	0,007 g	0,007 g	0,007 g
Repeatability (sd.), 5% 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	500 g, 1 000 g, 1 500 g, 2 000 g	1 000 g, 2 000 g, 3 000 g, 4 000 g	2 000 g, 3 000 g, 4 000 g, 6 000 g	2 000 g, 4 000 g, 6 000 g, 8 000 g	6 000 g, 8 000 g, 10 000 g, 12 000 g
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 × 480 Pixels				
Communication	USB Host (Type A) × 2, USB Device (Type C) × 1, Ethernet (RJ45) × 1, RS232 × 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 178 mm × 201 mm				
Touchless Sensor	2 Touchless Sensors on the terminal				
Terminal Status Lights	Standard, 7-color Selectable				
Assembled Dimensions (W × D × H)	229 mm × 391 mm × 95 mm				
Shipping Dimensions (W × D × H)	385 mm × 590 mm × 311 mm				
Net Weight	4,9 kg				
Shipping Weight	7,1 kg				

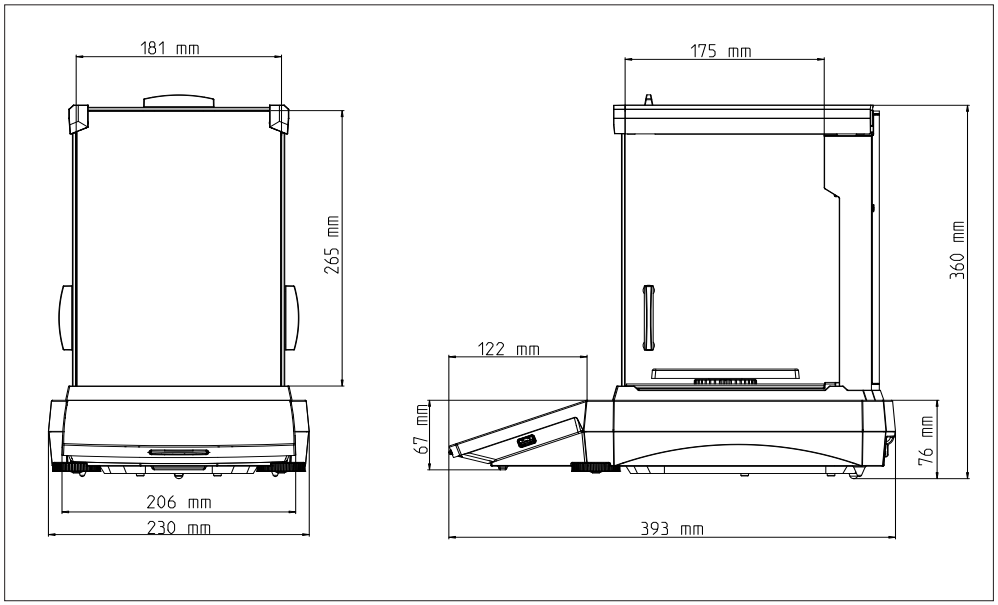
EXPLORER™ *Precision Balances*

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	0,2 g	0,2 g	0,2 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	2000 g, 3000 g, 4000 g, 6000 g	2000 g, 4000 g, 6000 g, 8000 g	2500 g, 5000 g, 7500 g, 10000 g
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	800×480 Pixels		
Communication	USB Host (Type A)×2, USB Device (Type C)×1, Ethernet (RJ45)×1, RS232×1; 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 178 mm×201 mm		
Touchless Sensor	2 Touchless Sensors on the terminal		
Terminal Status Lights	Standard, 7-color Selectable		
Assembled Dimensions (W×D×H)	230 mm×393 mm×96 mm		
Shipping Dimensions (W×D×H)	385 mm×590 mm×311 mm		
Net Weight	4,9 kg		
Shipping Weight	7,1 kg		

Outline Dimensions





Approvals

- **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

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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.	31059237
	Accessory Name	Weighing Kit
	Item No.	80253384
	Accessory Name	Density Kit, Solids
	Item No.	83034024
	Accessory Name	Sinker, Glass, Liquid, Density Kit
	Item No.	12120799
	Accessory Name	SF40A Paper roll (57,5 mm 2 pcs)
	Item No.	30529322
	Accessory Name	SF40A Ink Ribbon Cassette

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