



Engineered for Accuracy, Designed for Demanding Applications

The new Explorer (EXP series) offers a premium weighing performance, compliance support and data traceability. The advanced features take the EXP to the next level by optimizing the user experience. This flagship balance is crafted to meet the most demanding requirements of modern scientific research.

Unique Features:

- **Intelligent User Experience**

Seamless setup with motorized leveling, anti-pinch auto-doors, touchless sensors, ionizer and draftshield light. A 7-inch glass touchscreen, chemical protection and 2 customizable status lights.

- **Supports Compliance for Data Traceability**

Ensure compliance with 4-level user system, password protection, and 100k internal system log. The time synchronization NTP function confirms data traceability to meet pharmaceutical regulations.

- **Effortless System Integration**

Advanced communication capabilities with straightforward integration to Laboratory Information Management Systems (LIMS), and hassle-free data transfer with driverless HID for easy data input.

EXPLORER PLUS™ *Semi-Micro Balances*

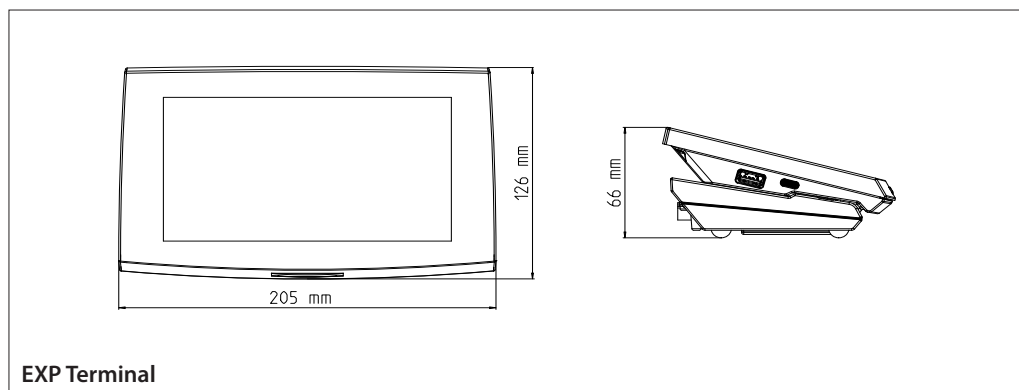
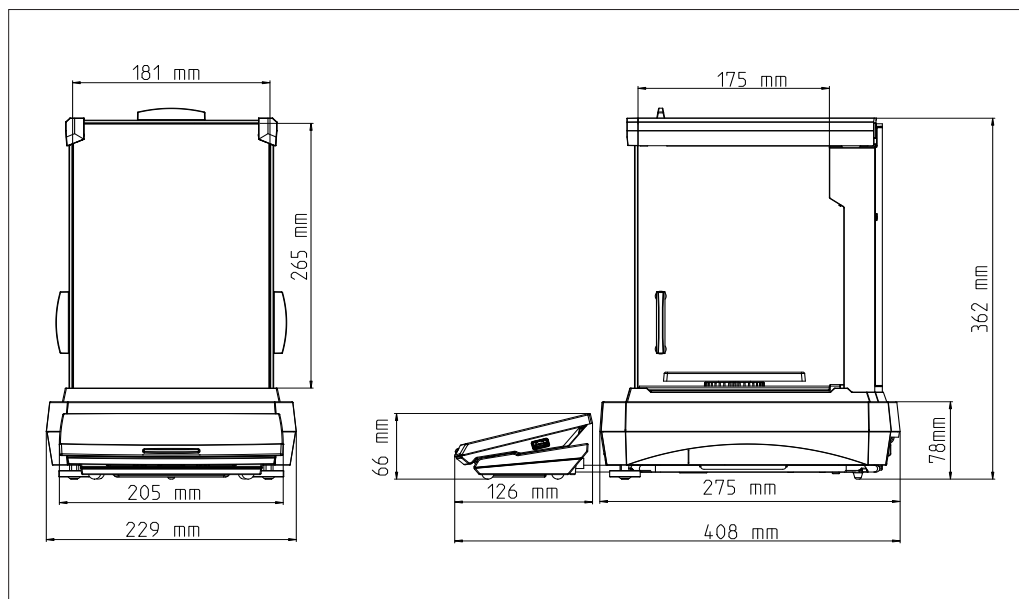
Specifications



Model	EXP125D/AD	EXP125/AD	EXP225D/AD	EXP225/AD
	EXP125DM/AD	EXP125M/AD	EXP225DM/AD	EXP225M/AD
Capacity	82 g / 120 g	120 g	120 g / 220 g	220 g
Readability d, Fine Range	0,01 mg	0,01 mg	0,01 mg	0,01 mg
Readability d, Full Range	0,1 mg	0,01 mg	0,1 mg	0,01 mg
Repeatability (sd.), ≤5% of Full Load Typical	0,01 mg	0,01 mg	0,01 mg	0,01 mg
Repeatability (sd.), 5% of Full Load to Fine Range Max	0,02 mg	0,02 mg	0,02 mg	0,02 mg
Repeatability (sd.), Fine Range Max to Full Range	0,1 mg	0,02 mg	0,1 mg	0,02 mg
Linearity Deviation Typical	0,06 mg	0,06 mg	0,06 mg	0,06 mg
Linearity Deviation	0,2 mg	0,1 mg	0,2 mg	0,1 mg
Verification Interval, e (EXP...M.. models only)	1 mg	1 mg	1 mg	1 mg
Approval Class (EXP...M.. models only)	Class I	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	
Weighing Units	g, mg, ct, N, oz, ozt, Grain, dwt, mo, msg, tcl, tola, baht, Custom 1, Custom 2			
Weighing Units (EXP...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, Pipette Adjustment, SQC, Fill Weight Variation, Flow Rate Control			
Stabilization Time (typical)	0,1 mg: ≤2 seconds, 0,01 mg: ≤ 5 seconds			
Sensitivity Temperature Drift (ppm/°C)	0,8			
Min-Weight (Typical) (K=2, U=1%)	2 mg			
Min-Weight (typical) (USP, K=2, U=0,10%)	20 mg			
Min-Weight (optimal) (USP, K=2, U=0,10%, SRP≤0,41d)	8,2 mg			
Terminal Display	7-inch TFT 16,7M Color Touch Screen with Glass Overlay, Detachable Terminal			
Display Resolution	800×480 Pixels			
Communication	USB Host (Type A)×2, USB Device (Type B)×1, USB Device (Type C)×1 Ethernet (RJ45)×1, RS232×1; Optional Wi-Fi, Bluetooth Dongle			
Leveling System	Motorized Leveling System 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	Aero Pan 80 mm×80 mm			
Built-in Ionizer	Standard			
Environmental Sensor (Load Cell)	Temperature Sensor, Relative Humidity Sensor (RH), Air Pressure Sensor			
Touchless Sensor	2 Touchless Sensors on the terminal			
Draftshield with anti-static coating	Standard			
Automatic Draftshield Door Function	Standard, Open Range: 1/2 open and fully open			
Draftshield & Terminal Status Lights	Standard, 7-color Selectable			
Sample Spotlight	Standard, White			
Terminal Housing Dimensions (W×D×H)	205 mm×126 mm×66 mm			
Base Housing Dimensions (W×D×H)	229 mm×275 mm×78 mm			
Assembled Dimensions (W×D×H)	229 mm×408 mm×372 mm			
Shipping Dimensions (W×D×H)	415 mm×630 mm×561 mm			
Net Weight	7,8 kg			
Shipping Weight	12,0 kg			

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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.	31059238
	Accessory Name	Fingerprint scanner FIN-100A

	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.	30252145
	Accessory Name	Pipette Evaporation Trap

	Item No.	30078078
	Accessory Name	Terminal Extension Cable, RS422, 9 m

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

