

## VWR<sup>®</sup> BALANCES

A-Series Balances for High Precision with Advanced Features

B2-Series Balances are Rugged, Affordable, and Reliable

B2T-Series Balances Feature a 5" Color Touch Screen and Proximity Sensor

E-Series Balances for Entry Level Applications

P-Series Balances for Portability



### VWR® A-Series Balances: High Precision Weighing with Advanced Features

- **Advanced Technology:** In addition to forced-compensation weighing technology, VWR A-Series balances incorporate state-of-the-art features for advanced weighing applications and documentation.
- **Internal Automatic Calibration and Adjustment** with three internal calibration options:
  - Temperature-activated calibrations initiate with a 3°C change in ambient temperature
  - Time-activated calibrations may be programmed from one-hour to twelve-hour intervals
  - Press the CAL key to activate the calibration function
- **Menu-Driven Operation** provides dedicated Setup, Mode, Function, and Database Keys along with navigational arrows for easy access to weighing features, applications, and stored data.
- **Multiple Weigh Modes** feature 17 different units, including gram & mg.
- **Advanced Communication Features** allow the VWR A-Series balances to connect to a printer or network via the RS232 (2) or USB (2, Type A & B) ports. Data may be transferred manually by pressing the Print/Enter Key or program the balance to send information automatically at designated time intervals and stability settings.
- **Application Modes** optimize the performance of your balance with one of 11 application modes: Basic Weighing, Piece Counting, Check Weighing, Dosing, Deviations, Density Determination (Solids & Liquids), Animal Weigh, Statistics, Totalizing (Formulation), and Peak Hold.
- **Rugged and Built to Last** construction with a housing that is designed to endure the most challenging environments from teaching labs to industrial use.
- **Balance Parameter Settings** include Access Levels, User Functions, Backlight Settings, Language, Keyboard Sounds, along with GLP Protocols.
- **User-Friendly Draft Shield** is standard on Semi-Micro and Analytical models. The internal dimensions [16.0 x 16.8 x 23.0cm (6¼ x 6½ x 9")] and three sliding doors allow for easy access to the chamber. The Draft Shield Doors, Stainless Steel Weigh Pan, and Draft Chamber Floor are easy to remove for cleaning.
- **GLP Documentation** is standard on the VWR A-Series balances. Store up to 10 Users, 1000 Products, and 100 Tare Weight Values in memory (alphanumeric). Detailed reporting includes Balance ID, User, Date, Time, Software Version, Measurement Mode, Results, and Signature Line, allowing for complete GLP documentation.
- **Economical:** the VWR A-Series balances are the answer for organizations demanding precision and performance on a limited budget.



#### Features:

- Internal Automatic Calibration: Time- or Temperature-Activated
- Easy-to-Read, Adjustable, Backlit Display
- Simple Menu-Driven Navigation
- 17 Weigh Modes
- 11 Application Modes
- Multi-Language
- Overload Protection Reduces the Risk of Damage from Misuse
- Adjustable Ambient Condition Settings for Difficult Environments
- Full GLP Documentation
- 10 Users (with Administrator Control)
- 1,000 Product Data Storage
- Tare Weight Storage, 100 Containers
- ALIBI Memory Secures up to 100,000 Weighing Records
- Two RS232 and Two USB (Type A & B) Communication Options
- Stainless Steel Pans, Spill Ring, and Draft Chamber Floor Removable for Easy Cleaning
- Five-Year Warranty



**Common Specifications:**

<b>Calibration Adjustment:</b>	Internal, Automatic
<b>Operating Temperature:</b>	10–40°C (50–104°F)
<b>Relative Humidity:</b>	40–80% (Non-condensing)
<b>Sensitivity Drift:</b>	1ppm°C, 10–40°C
<b>Interface:</b>	RS232 (2), USB-A & USB-B
<b>Display:</b>	White Backlit LCD
<b>Power Requirements:</b>	Input: 100–240VAC, 50–60Hz, 0.6A Output: 12–16VD, 2.1A Polarity: Outside = +; Inside = -
<b>Unit Dimensions, L x W x H, cm (in.):</b>	33.3 x 20.6 x 35.5 (13 <sup>1</sup> / <sub>8</sub> x 8 <sup>1</sup> / <sub>8</sub> x 14")
<b>Net Weight:</b>	5.6kg (12 <sup>3</sup> / <sub>8</sub> lbs)
<b>Internal Chamber Dimensions (0.01mg &amp; 0.1mg Models), cm (in.):</b>	16.0 x 16.8 x 23.0 (6 <sup>1</sup> / <sub>4</sub> x 6 <sup>5</sup> / <sub>8</sub> x 9")
<b>Height Above Pan, (0.01mg &amp; 0.1mg Models), cm (in.):</b>	22.7 (9")

Capacity, g	Taring Range, g	Linearity	Readability	Repeatability (Std. Dev.)	Stabilization Time, sec.	Pan Size, cm (in.)	Cat. No.
<b>Semi-Micro &amp; Analytical Models</b>							
60/220	0–220	0.07/0.2 mg	0.01/0.1 mg	0.03/0.1 mg	6 / 3.5	9.0 (3 <sup>1</sup> / <sub>2</sub> ")	<b>10205-026</b>
160	0–160	0.2 mg	0.1 mg	0.1 mg	3.5	10.0 (4")	<b>10204-960</b>
220	0–220	0.2 mg	0.1 mg	0.1 mg	3.5	10.0 (4")	<b>10204-962</b>
310	0–310	0.2 mg	0.1 mg	0.1 mg	3.5	10.0 (4")	<b>10204-964</b>
<b>Precision Models</b>							
360	0–360	0.003 g	0.001 g	0.001 g	2	12.8 x 12.8 (5 x 5")	<b>10204-966</b>
4500	0–4500	0.02 g	0.01 g	0.01 g	1.5	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> ")	<b>10204-968</b>
6000	0–6000	0.02 g	0.01 g	0.01 g	1.5	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> ")	<b>10204-970</b>

## VWR® B2-Series Balances: Affordable Reliability for a Broad Range of Applications

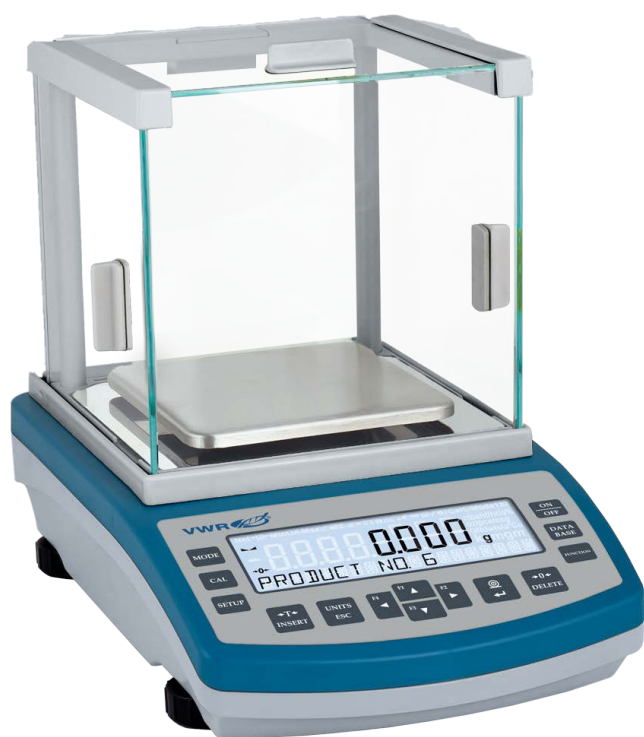
- **Menu-Driven Operation** provides dedicated Setup, Mode, Function, and Database keys along with navigational arrows for easy access to weighing features, applications, and data.
- **Calibration** takes place at the touch of a key (CAL). The B2-Series Balances guide you through the calibration procedure informing you when to unload and load the pan with the predetermined calibration weight. Calibration weight available separately.
- **Multiple Weigh Modes** allow users to scroll between 16 different units, including the ability to create two custom user-defined units.
- **RS232 Interface** makes it easy to connect VWR B2-Series balances to a computer or printer to quickly print your data reports.
- **Animal Weighing** makes an often difficult task easier. VWR B2-Series balances take multiple weight readings and then locks the average weight on the display.
- **Percent Weighing** measures the percentage of a sample proportional to an initial reference weight and calculates the increase or decrease in percentage value.
- **Density Determination** can be calculated using the below balance weighing port and the buoyancy method.
- **Parts Counting** feature makes VWR B2-Series balances ideal for inventory control. Simply place the reference quantity (1, 10, 25, 50, or 100 pieces) on the pan and the balance will do the rest.
- **Large LCD Display** and onscreen symbols inform you of real-time functions including working mode, battery charge, and connection status.
- **3-Door Draft Shield** is standard on all Analytical and Milligram Models. The internal dimensions and three sliding doors allow for easy access to the chamber. The stainless steel weigh pan, draft spill ring, and chamber door (0.1mg and 0.001g models) are easy to clean.
- **Economical:** the VWR B2-Series balances are the answer for organizations demanding precision on a limited budget.
- **Five-Year Warranty** offered on all VWR B2-Series balances.



### Features:

- External Calibration
- Easy-to-Read, Adjustable, Backlit Display
- Simple Menu-Driven Navigation
- 16 Weigh Modes
- 6 Application Modes
- 4 Databases: Users, Products, Weighings, and Tares
- Overload Protection Reduces the Risk of Damage from Misuse
- Adjustable Filter Settings for Difficult Environments
- RS232 Communication Option for Printing Reports
- Stainless Steel Pans, Spill Ring, and Draft Chamber Floor for Easy Cleaning
- Five-Year Warranty





**Common Specifications:**

<b>Calibration Adjustment:</b>	External
<b>Operating Temperature:</b>	10–40°C (50–104°F)
<b>Relative Humidity:</b>	40–80% (Non-condensing)
<b>Sensitivity Drift:</b>	1ppm°C, 10–40°C
<b>Interface:</b>	RS232
<b>Display:</b>	White Backlit LCD
<b>Power Requirements:</b>	Input: 100–240VAC, 50–60Hz, 0.6A Output: 12–16VD, 2.1A Polarity: Outside = +; Inside = -
<b>Unit Dimensions, L x W x H, cm (in.): 0.1mg &amp; 0.001g Models</b>	33.3 x 20.6 x 28.0 (13 <sup>1</sup> / <sub>8</sub> x 8 <sup>1</sup> / <sub>8</sub> x 11")
<b>Net Weight, kg (lbs.):</b>	3.5 (7 <sup>3</sup> / <sub>4</sub> )

Capacity, g	Taring Range, g	Linearity	Readability	Repeatability (Std. Dev.)	Stabilization Time, sec.	Pan Size, cm (in.)	Cat. No.
<b>Analytical Models</b>							
60	0–60	0.2 mg	0.1 mg	0.1 mg	3.5	8.5 (3 <sup>3</sup> / <sub>8</sub> ")	<b>75802-858</b>
120	0–120	0.2 mg	0.1 mg	0.1 mg	3.5	8.5 (3 <sup>3</sup> / <sub>8</sub> ")	<b>75802-860</b>
210	0–210	0.2 mg	0.1 mg	0.1 mg	3.5	8.5 (3 <sup>3</sup> / <sub>8</sub> ")	<b>75802-862</b>
<b>Precision Models</b>							
200	0–200	0.002 g	0.001 g	0.001 g	2	12.8 x 12.8 (5 x 5")	<b>75802-864</b>
400	0–400	0.002 g	0.001 g	0.001 g	2	12.8 x 12.8 (5 x 5")	<b>75802-866</b>
500	0–500	0.002 g	0.001 g	0.001 g	2	12.8 x 12.8 (5 x 5")	<b>75802-868</b>
<b>Precision Models, High Capacity</b>							
4000	0–4000	0.02 g	0.01 g	0.01 g	1.5	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> ")	<b>75802-870</b>
5000	0–5000	0.02 g	0.01 g	0.01 g	1.5	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> ")	<b>75802-872</b>

## B2T-Series: Touch Display Balance

- **Large Weigh Pan** features advanced weighing options for higher capacity applications.
- **Simple Operation** using a 12.7 cm (5") color capacitive touch screen allows for easy customization of the menu options and personalization of widgets on the home screen.
- **Built in Proximity Sensor** allows users the opportunity to have touch-free options performed by motioning over the sensors (e.g., printing results).
- **Product Memory** allows for creation of up to 5,000 products for easy organization of items being weighed in a lab.
- **Multiple Weigh Modes** let a user scroll between the weigh modes including grams & mg. In addition, the balance can be locked to display only certain modes during use.
- **External Calibration** using the touch display is easy. Simply press the calibration button on the display to activate the calibration procedure. Calibration mass (required) is available separately.
- **Multiple Interfaces** allow for easy connections between your balance and a computer or printer via the two RS232 and two USB (Type A & B) interfaces.



### Features:

- Advanced Microprocessor Technology
- Large, 12.7 cm (5") Color Capacitive Touch Screen Display
- Simple Operation
- 17 Weigh Modes
- 11 Application Modes
- Two RS232 and two USB (Type A & B) Ports for Easy Connection to Computer or Printer
- Stainless Steel Pan for Easy Cleaning
- External Calibration for Accurate Results
- Priced Right
- Five-Year Warranty



**Common Specifications:**

<b>Calibration Adjustment:</b>	External
<b>Operating Temperature:</b>	10-40°C (50-104°F)
<b>Relative Humidity:</b>	40-80% (Non-condensing)
<b>Sensitivity Drift:</b>	1ppm°C, 10-40°C
<b>Interface:</b>	RS232 (2) USB-A & USB-B
<b>Display:</b>	12.7 cm (5") Color Capacitive Touch Screen
<b>Power Requirements:</b>	Input: 100-240VAC, 50-60Hz, 0.6A Output: 12-16VD, 2.1A Polarity: Outside = +; Inside = -
<b>Unit Dimensions, L x W x H, cm (in.): 0.1mg &amp; 0.001g Models</b>	33.3 x 20.6 x 10.0 (13 <sup>1</sup> / <sub>8</sub> x 8 <sup>1</sup> / <sub>8</sub> x 4")
<b>Net Weight, kg (lbs.):</b>	2.2 (4 <sup>3</sup> / <sub>4</sub> )

Capacity, g	Taring Range, g	Linearity	Readability	Repeatability (Std. Dev.)	Stabilization Time, sec.	Pan Size, cm (in.)	Cat. No.
<b>Precision Models</b>							
2000	0-2000	0.03 g	0.01 g	0.015 g	2	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> "	<b>75870-334</b>
6000	0-6000	0.3 g	0.1 g	0.1 g	2	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> "	<b>75870-328</b>
10,000	0-10,000	0.3 g	0.1 g	0.08 g	2	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> "	<b>75870-330</b>
20,000	0-20,000	0.3 g	0.1 g	0.1 g	3	19.5 x 19.5 (7 <sup>3</sup> / <sub>4</sub> x 7 <sup>3</sup> / <sub>4</sub> "	<b>75870-332</b>

### E-Series Balances: Entry Level Balance for Basic Weighing Needs

- **Entry-Level Balance** offers sturdy construction and ease-of-use to make the VWR E-Series balances the ideal choice for your lab.
- **Economical:** the VWR E-Series balances are the answer for organizations demanding performance on a limited budget.
- **Simple Operation** through five dedicated keys (On/Off, CAL, Unit, and Print) for quick, effortless weighing.
- **Advanced Microprocessor Technology** ensures the VWR E-Series balances provide fast, stable, reproducible weighing results.
- **Bright White Backlit Display** for easy viewing under any lighting conditions. In well-lit environments the backlight can be turned off for better viewing.
- **Multiple Weigh Modes** with 16 different units including gram, ounce, and pound.
- **Versatile** for bench or field use. Operate the VWR E-Series balances on the bench top with standard AC power (adapter included). 6 AA batteries allow convenient use in the field or when moving from lab-to-lab. In the battery operation mode, the unit will automatically shut off after five minutes, and a low-battery indicator will alert the operator before power expires.
- **RS232 Interface Connectivity** allows for easy connection between your balance and a computer or printer.
- **Built to Last** with construction designed to endure challenging environments from teaching labs to light industrial use. Stainless steel pans on all models are easy to clean.



#### Features:

- Advanced Microprocessor Technology
- Bright White Backlit Display
- Simple Operation
- Front Positioned Level Indicator for Easy Balance Leveling
- Overload Protection
- Below Balance Weighing for Specific Gravity Determination (Except 10205-000)
- 16 Weigh Modes
- Auto Shut Off in Battery Operation Mode
- RS232 for Easy Connection to a Computer or Printer
- Stainless Steel Pans for Easy Cleaning
- Automatic External Calibration for Accurate Results
- Priced Right
- Five-Year Warranty





**Common Specifications:**

<b>Operating Temperature:</b>	15–35°C (50–86°F)
<b>Unit Dimensions, LxWxH, cm (in.):</b>	
<b>1000–6000g Capacity</b>	25.8 x 18.8 x 8.2 (10 1/4 x 7 1/2 x 3 1/4")
<b>10,000 &amp; 20,000g Capacity</b>	33.0 x 21.5 x 9.0 (8 1/2 x 13 x 3 1/2")
<b>Net Weight, kg (lbs.):</b>	
<b>1000–6000g Capacity</b>	2 (4 1/2)
<b>10,000 &amp; 20,000g Capacity</b>	3 (6 1/2)
<b>Power Requirements:</b>	
<b>1000–6000g Capacity</b>	100–240VAC, 50–60Hz, 12VDC (adapter included); 6 AA Batteries (batteries not included)
<b>10,000 &amp; 20,000g Capacity</b>	120VAC, 50–60Hz, 12VDC (adapter included); Internal Rechargeable Battery

Capacity, g	Taring Range, g	Linearity, g	Readability, g	Repeatability (Std. Dev.), g	Stabilization Time, sec.	Pan Size, cm (in.)	Cat. No.
1000	0–1000	0.02	0.01	0.01	3	13.5 x 12.0 (5 1/4 x 4 3/4")	<b>10204-990</b>
3000	0–3000	0.03	0.01	0.01	3	17.0 x 18.0 (6 3/4 x 7 1/8")	<b>10204-992</b>
3000	0–3000	0.2	0.1	0.1	2	17.0 x 18.0 (6 3/4 x 7 1/8")	<b>10204-994</b>
6000	0–6000	0.2	0.1	0.1	2	17.0 x 18.0 (6 3/4 x 7 1/8")	<b>10204-996</b>
10,000	0–10,000	0.2	0.1	0.1	2	20.0 x 21.5 (8 x 8 1/2")	<b>10204-998</b>
20,000	0–20,000	0.2	0.1	0.1	3	20.0 x 21.5 (8 x 8 1/2")	<b>10205-000</b>

### P-Series Balances: Anywhere that Accuracy and Portability is Required

- **Versatile:** The VWR P-Series balances are ideal for educational, light industrial, and general laboratory applications or anywhere that accuracy and portability is required.
- **Portable:** Operate in the field or move from lab-to-lab. All VWR P-Series balances come complete with a power adapter and an internal rechargeable battery. Automatic shut off mode conserves battery life and the low-battery indicator ensures sample weighing is not interrupted.
- **Large, Easy-to-See LCD Backlit Display** is ideal for dimly lit work locations.
- **Multiple Working Modes** include weighing, parts counting, percent weighing, peak hold, and totalizing. High capacity models also include check weighing, animal weighing, and measurement in Newtons.
- **Oversized Draft Shield** with a Stainless Steel Lift Off Cover is standard on Cat. No. **76175-400**. The internal dimensions [15.0 x 14.0 x 10.7cm (6 x 5½ x 4¼")] provide easy access and ample space when working with larger samples.
- **Stainless Steel Weigh Pans** are easy to remove for cleaning.
- **Rugged, Built to Last** for every environment from teaching labs to light industrial use.
- **Five-Year Warranty** on parts and labor for peace of mind.
- **Economical:** VWR P-Series balances are the solution for organizations with limited budgets.



#### Features:

- Large, Easy-to-Read LCD Backlit Display
- Simple Operation
- Three Weigh Modes
- Oversized Draft Chamber with Stainless Steel Cover (Cat. No. **76175-400**)
- Auto Shut Off Mode
- Low-Battery Indicator
- Externally Calibrated
- Overload Protection
- Five-Year Warranty
- Economical



**Common Specifications:**

	Precision Models (except 76175-400):	76175-400	Precision Models, High Capacity:
<b>Operating Temperature:</b>	15–30°C (56–86°F)	15–30°C (56–86°F)	15–30°C (56–86°F)
<b>Unit Dimensions, LxWxH, cm (in.):</b>	23.0 x 16.0 x 6.75 (9 x 6 1/4 x 2 1/2")	23.0 x 16.0 x 17.5 (9 x 6 1/4 x 7")	33.3 x 20.6 x 9.7 (13 x 8 x 3 3/4")
<b>Interfaces:</b>	RS232, USB-A, USB-B	RS232, USB-A, USB-B	RS232
<b>Net Weight, kg (lbs.):</b>	1.3 (3)	1.3 (3)	2.8 (6 1/4)
<b>Power Requirements:</b>	100–240VAC, 50–60Hz, 12VDC + Battery	100–240VAC, 50–60Hz, 12VDC + Battery	11VAC, 10.5–15VDC, I <sub>max</sub> =600mA, Accumulator

Capacity, g	Taring Range, g	Linearity, g	Readability, g	Repeatability (Std. Dev.), g	Stabilization Time, sec.	Pan Size, cm (in.)	Cat. No.
<b>Precision Models</b>							
200	0–200	0.004	0.001	0.002	2	10.0 (4)	<b>76175-400</b>
600	0–600	0.02	0.01	0.01	2	12.8 x 12.8 (5 x 5")	<b>76175-402</b>
2000	0–2000	0.0	0.01	0.01	2	12.8 x 12.8 (5 x 5")	<b>76175-404</b>
3100	0–3100	0.3	0.1	0.1	2	12.8 x 12.8 (5 x 5")	<b>76175-276</b>
<b>Precision Models, High Capacity</b>							
6000	0–6000	0.2	0.1	0.1	3	19.5 x 19.5 (7 3/4 x 7 3/4")	<b>76175-278</b>
10,000	0–10,000	0.3	0.1	0.1	3	19.5 x 19.5 (7 3/4 x 7 3/4")	<b>76175-280</b>
20,000	0–20,000	0.3	0.1	0.1	3	19.5 x 19.5 (7 3/4 x 7 3/4")	<b>76175-398</b>



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