

Advanced Performance UniBloc Balances

# AP Series





\*AP225W-AD

NEW AP W-AD

# NEW AP with Automatic Door

## AP W-AD Series

Advanced Performance UniBloc™ Balances

Provides High-Speed Response and High Stability

New automatic door functionality makes weighing operations even more convenient

01 Touchless sensors and Smart Auto Door improve hygiene and lower contamination risk to provide a superior operating environment.

02 An ionizer and adjustable windbreak plate reduce static electricity and convection effects to provide highly stable and reliable measurements.

03 LabSolutions™ Balance supports weighing data integrity.

AP Analytical Balance

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NEW

# AP with Automatic Door

AP W-AD Series

## Smart Auto Door Improves Work Efficiency

The AP series features automatic doors. That means operators can continue working without setting down samples or spatulas, which can help shorten overall measurement times.

### Doors Open/Close Smoothly and Quickly

Door opening/closing time is about one second. The quick and smooth door action enables stress-free operation.

### Adjustable Opening/Closing Distance Using Automatic Learning Functionality

The automatic doors include automatic learning functionality that enables freely setting how far to open/close each glass door. That minimizes external air effects and increases operational efficiency.



### Doors can be opened/closed by three methods, depending on preference.

- 1 Open/close by waving a hand over the left and right infrared sensors

That enables door operation without touching the balance.

- 2 Open/close by pressing the left and right buttons on the front

That allows opening/closing doors with a satisfying click sensation.

- 3 Open/close using the manual trigger function

The glass doors open/close automatically after the doors are moved about 10 mm. That enables intuitive door operation.

### More Extensive Commands for Production Line Applications

#### ■ Computer-Controlled Door Open/Close Operation

This is ideal for managing very small measurement quantities, such as for controlling coating quantities applied on a production line.

#### ■ More Commands Compatible with Non-Shimadzu Brands

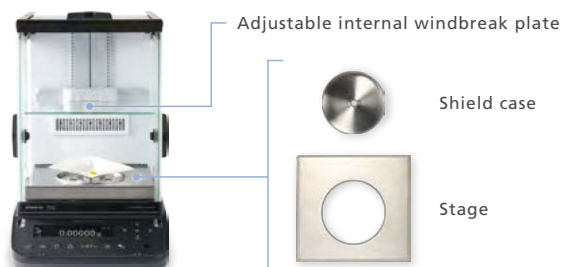
The list of commands that support opening/closing doors, acquiring weighing data, or other actions on non-Shimadzu products has been expanded. That means existing programs can be used more effectively.

Command	Function
WS0	Closes top, left, and right doors (all three doors)
WS1	Opens the right door
WS2	Opens the left door
SI	Acquires weighing data
T	Subtracts tare weight
ESC w1_	Opens the left door
ESC w2_	Closes top, left, and right doors (all three doors)
ESC w3_	Opens the top door
ESC w4_	Opens the right door
ESC P	Acquires weighing data
ESC U	Subtracts tare weight

### Suppresses the Effect of Convections

A patent-pending structure around the weighing pan (shield case and stage) and adjustable windbreak plate are included as standard features.\* These features reduce the effects of convective currents inside the weighing chamber, which can occur due to temperature variations caused by air conditioners, to ensure superior responsiveness and stability. If weighing papers, microtubes, or other items are used for measuring, use the included multi-stand accessory.

\* Only available on W-AD series 0.01 mg models



# Provides High-Speed Response and High Stability

Improved automatic door access makes weighing operations even more convenient

## Touchless Sensors Enable Hygienic Operation

The balance can be operated without touching the main unit.





That is especially helpful for infectious disease prevention or when handling hazardous substances.

It enables non-contact weighing operations without touching any operating keys. With the multi-function mode setting specified, a total of four different functions can be executed depending on how long hands are held over the left and right touchless sensors. That is perfect for ensuring safety by not contacting the unit when handling toxic substances and enables the balance to be operated smoothly while wearing gloves.

Checking the status of function settings by holding hands over both touchless sensors



List of Functions Learnable for Touchless Operation

Key	Function
Door Open/Close Keys (Left and Right) 	Opens/closes the glass door specified using the learning function
PRINT 	Outputs weight measurement values to an external device (printer or computer)
O/T 	Subtracts the tare weight (resets the zero point)
ION 	Switches the ionizer ON/OFF

## Adjustable Internal Windbreak Plate Improves Stability and Response

The windbreak suppresses factors that can cause measurement error, so that stable weighing can be performed by anyone.

Convection and air flow effects can be suppressed by minimizing the weighing chamber volume. New W-AD series 0.01 mg models are equipped standard with an adjustable windbreak plate inside the main unit. It can be raised or lowered according to the various containers or samples involved to provide the optimal weighing environment.

Height is Easily Adjustable with One Hand



Height can be adjusted in 5 mm increments. Optimal conditions inside the weighing chamber can be prepared by adjusting the height based on the given containers and samples involved.



Even a specific gravity measurement kit (SMK-601) can be installed by removing the adjustable windbreak plate.