

A New Level of Weighing Accuracy!

Supports More Accurate Weighing with a Significantly Improved Minimum Weighing Value

AP W-AD ex Series & AP W ex Series



AP225W-AD ex

Achieves the Class-Leading Minimum Weighing Value

Improvements to the weight detection mechanism and control processes provide higher weighing consistency and repeatability. It achieves a minimum weighing value of 13 mg*¹ (35 % lower than the previous model), which is the class-leading performance specified in pharmacopoeias.

Helps Ensure Convenient Weighing

A convenient AP holder is included for holding various types of glass containers. It supports weighing with containers.

Improves the Efficiency of Weighing Operations

Systems are equipped with automatic doors, touchless sensors, and an ionizer*² to improve weighing efficiency. That helps shorten analytical processes.

Product



*¹ Compliant with Japanese Pharmacopoeia 9.62, United States Pharmacopoeia 41, and European Pharmacopoeia 2.1.7. The value was achieved in Shimadzu plant tests using weights that weigh about 5 % of the weighing capacity. The minimum weighing value must be measured in the actual environment used for weighing because the value is affected by the installation environment.

*² AP W-AD ex series

▶ Repeatability Evolved to Best-in-Class Level! These models ensure weighing tests specified in pharmacopoeias can be performed appropriately

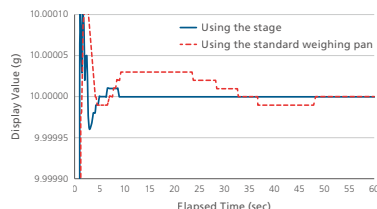
The minimum weighing value is significantly improved, from 20 mg for the previous model to 13 mg*¹ for the new models. That means smaller sample quantities can be easily analyzed accurately.

Model	AP225W-AD ex	AP135W-AD ex	AP225WD-AD ex	AP125WD-AD ex	AP225W ex	AP135W ex	AP225WD ex	AP125WD ex
Capacity	220 g	135 g	220 g / 102 g	120 g / 52 g	220 g	135 g	220 g / 102 g	120 g / 52 g
Minimum Display	0.01 mg		0.1 mg / 0.01 mg		0.01 mg		0.1 mg / 0.01 mg	
Repeatability (at weighing capacity)	0.03 mg	0.02 mg	0.1 mg / 0.02 mg		0.03 mg	0.02 mg	0.1 mg / 0.02 mg	
Repeatability (for Low Loads)	0.0065 mg (approx. 5 % load)* ¹							
Minimum Weight	13 mg* ¹							

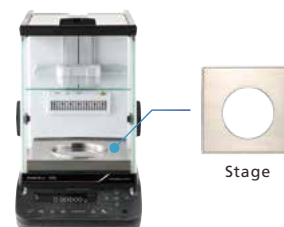
*¹ Compliant with the Japanese Pharmacopoeia, USP 41 and Ph.Eur.2.1.7. Minimum weight value is met at the Shimadzu Corporation factory using weights equal to approximately 5 % of the weighing capacity. This value is affected by the installation environment, so it is necessary to measure it in the actual environment of use.

Using the Stage Included Standard Also Reduces Environmental Effects

A stage that reduces the effects of air flow within the weighing chamber that can be generated depending on the weighing environment is included standard. Using the stage enables more accurate weighing by shortening the stabilization time, as shown in the graph on the right.



Example of AP225W-AD ex Display Fluctuations when Measuring a 10 g Weight



▶ Convenient AP Holder Included Standard

By using the AP Holder, samples can be much more smoothly measured directly in a volumetric flask or other such container. It improves the efficiency of research operations.

Containers Usable with a AP Holder (Examples)



Container	Approx. Capacity* ²
Centrifuge tubes	10 to 50 mL
Test tubes	2.5 to 25 mL
Volumetric flasks	10 to 100 mL
Conical flasks	50 to 300 mL
Beakers	50 to 100 mL

*² Containers must be at least about 70 mm tall or long.

▶ Equipped Standard with a STABLO-AP Ionizer*³ for Reliable Weighing

The draft-free built-in ionizer can quickly remove static charge from samples, containers, and other surfaces. That ensures higher measurement reliability than ever before.



*³ AP W ex series models are available with a separately-sold STABLO-AP ionizer pre-installed inside.

▶ Equipped with Touchless Sensors and Smart Automatic Doors*⁴ to Achieve Both Fast Response and High Consistency

This allows operators to operate the main unit without touching it. That means they can continue holding samples or spatulas during weighing operations, which can result in faster weighing operations. It also can reduce the burden of weighing operations and is helpful for implementing infectious disease countermeasures or handling hazardous substances.

Equipped with Automatic Learning Functionality

Settings for opening/closing the glass doors and the range they are opened/closed can be freely specified.

Freely Choose from Three Open/Close Methods

1. Use infrared sensors on the left and right for touchless opening/closing.
2. Open/close by pressing the left and right buttons.
3. Open/close using manual trigger functionality.

Equipped with Multi-Function Mode

A total of four different types of functions that depend on how long left/right infrared sensors are covered can be registered.



*⁴ AP W-AD ex series

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