Swiss Waagen DC GmbH

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AP224W Wägebereich 220g, Teilung 0.1mg





- Shimadzu AP Serie
- Laborwaage Analysenwaage für Pharma, Industrie und Analyse
- Semimikrow aageGoldw aage, Präzisionsw aage
- Guluw daye, Plazisium:
 ojohföhja
- eichfähigWägen, tarieren, zählen
- Beseitigen statischer Ladung durch Stablo AP (Optional)
- USB Host für Tastatur, Scanner, USB
 Speichergerät (W-Series)
- USB-Device für Drucker und PC (alle)
- Interner Kalibrierung
- Überlastschutz, robust
- Automatische Abschaltung
- RS 232 Schnittstelle
- OEL Display- Punktmatrix
- Wiegeplatte Ø 91mm
- Eingebauter Ionisator (optional erhältlich)



Analysewaage:	Wägebereich:	Teilung:	Kalibrierung:	Hersteller:
AP135W	135g	0.01mg	intern	Shimadzu
AP125WD	120g / 52g	0.01mg / 0.1mg	intern	Shimadzu
AP225WD	220g / 102g	0.01mg / 0.1mg	intern	Shimadzu
AP124W	120g	0.1mg	intern	Shimadzu
AP224W	220g	0.1mg	intern	Shimadzu
AP324W	320g	0.1mg	intern	Shimadzu
AP124X	120g	0.1mg	intern	Shimadzu
AP224X	220g	0.1mg	intern	Shimadzu
AP324X	320g	0.1mg	intern	Shimadzu

Diese Variante

Preis



AP224W Wägebereich 220g, Teilung 0.1mg sofort lieferbar

Fr. 3560.00

Andere Varianten		Preis
	AP135W Wägebereich 135 g, Teilung 0.01mg sofort lieferbar	Fr. 4190.00
CEM 18	Eichung zu AP135W e = 1 mg sofort lieferbar	Fr. 185.00
	AP125WD Wägebereich 120g / 52g, Teilung 0.01mg/ 0.1mg sofort lieferbar	Fr. 4060.00
CE M 18	Eichung zu AP125WD e = 1 mg sofort lieferbar	Fr. 185.00
	AP225WD Wägebereich 220g/ 102g, Teilung 0.01mg/ 0.1mg sofort lieferbar	Fr. 4060.00
CE M 18	Eichung zu AP225WD e = 1 mg sofort lieferbar	Fr. 185.00

	AP124W Wägebereich 120g, Teilung 0.1mg sofort lieferbar	Fr. 3220.00
C € M 18	Echung zu AP124W e = 1 mg sofort lieferbar	Fr. 185.00
CE M 18	Echung zu AP224W e = 1 mg sofort lieferbar	Fr. 185.00
	AP324W Wägebereich 320g, Teilung 0.1mg sofort lieferbar	Fr. 3860.00
C € M 18	Eichung zu AP324W e = 1 mg sofort lieferbar	Fr. 185.00
	AP124X Wägebereich 120g, Teilung 0.1mg sofort lieferbar	Fr. 2880.00
C € M 18	Echung zu AP124X e = 1 mg sofort lieferbar	Fr. 185.00
	AP224X Wägebereich 220g, Teilung 0.1mg sofort lieferbar	Fr. 3220.00
C € M 18	Echung zu AP224X e = 1 mg sofort lieferbar	Fr. 185.00

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AP324X Wägebereich 320g, Teilung 0.1mg sofort lieferbar

Fr. 3390.00

CE M 18

Eichung zu AP324X e = 1 mg sofort lieferbar

Fr. 185.00

Zubehör		Preis
1	Shimadzu Stablo AP Beseitigt elektrostatische Ladung sofort lieferbar	Fr. 1140.00
	Antivibrationstisch robuste Konstruktion, 800x600mm, mit Granitplatte 400x450mm 2 Teilig <mark>lieferbar in 7 Tagen</mark>	Fr. 1435.00

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Advanced Performance UniBloc Balances





APSeries

Provides High-speed Response and High Stability A New Stage in Analytical Balance Performance

High Speed

The response time for trace measurements (from 1 mg) is reduced to about 2 seconds. This significantly improves weighing efficiency.

Stress Free

The STABLO-AP ionizer can be mounted. This eliminates the influence of static electricity, achieving reliable measurements in a simpler procedure.

For Regulation

Interlocking with LabSolutions Balance enables compliance with a variety of regulations for measurement data integrity, including ISO 17025 for testing laboratories, ISO 9001 and ISO 14001 for the manufacturing industry, and GLP/GMP and the United States Pharmacopeia (USP) for the pharmaceutical industry.

For HPLC

Functions are included for the preparation of buffer solutions used in HPLC. As a result, the operation can be performed accurately and easily, even by non-specialists.

Save Your Operation

Equipped with USB as standard*1. Includes many diverse functions to support users.





Watch the AP overview video on our website. http://www.shimadzu.com/an/balance/analytical/ap.html

High Speed

Fast measurement significantly improves operational efficiency.

Fast Response with UniBloc AP Technology

Shimadzu analytical balances boast a one-piece UniBloc weighing sensor, which is now

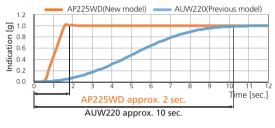
even more advanced.

The response time is reduced to about 1/5 the time of previous models.

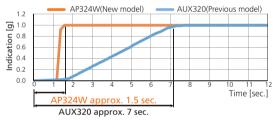
The improved UniBloc sensor offers a response time of just 2 seconds, an improvement

from 10 seconds with the previous model.

Response During Trace Measurements with the 0.01 mg Model (Equivalent to 1 mg / With Conditions Set by Shimadzu)



Response During Trace Measurements with the 0.1 mg Model (Equivalent to 1 mg / With Conditions Set by Shimadzu)



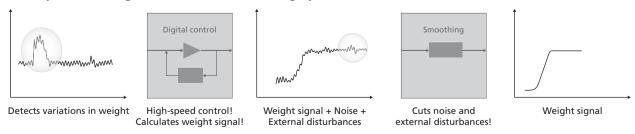
Model	Previous Model	AP Series
0.01 mg	10 sec.	2 sec.
0.1 mg	7 sec.	1.5 sec.



Advanced Digital Control for Fast, Reliable Weighing

The improved measuring feel provides more comfortable use.

AP-i System (intelligent - Advanced Processing System)



Measuring feel has been significantly improved by using the advanced digital control technology and smoothing technology. AP-i system provides reliable weighing even in an environment with significant external disturbances. This promises to increase the efficiency of your measurement operations.

The multi stand can be used freely and easily.

(0.01 mg model only, equipped as standard)



With weighing paper, for example, if the tare is larger than the pan diameter, measurements can be simplified by attaching the special multi stand



Long rod-shaped samples can be measured in a stable state by placing them in the slot in the special multi stand.



Measuring weights with a pipette can be simplified by placing a micro tube upright in the sample holder in the special multi stand.



The internal windbreak plate suppresses the influence of convection and airflow within the weighing chamber, improving the stability and response of measurement values.

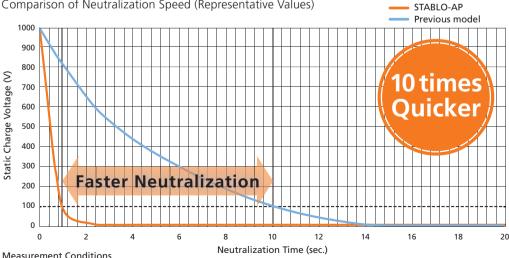
Built-in High-Performance Ionizer (Optional)

The ionizer eliminates influence of static electricity in 1/10 the time of previous models.

Note: Example of typical static electricity removal time ($\pm 1000 \text{ V} \rightarrow \pm 100 \text{ V}$) 1 sec. for STABLO-AP and 10 sec. for STABLO-EX

AC Method with Excellent Ion Polarity Balance Mount the STABLO-AP in the balance and use it as a built-in model

Comparison of Neutralization Speed (Representative Values)



Measurement Conditions

 Time from ±1000 V to ±100 V • Distance between CPM and ionizer: 100 mm

• For this evaluation, a 150 × 150 mm charged plate monitor (CPM, 20pF) was used.

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High-Security User Management NEW

Operations can be kept secure with user ID and password protection. Access rights can be specified separately for each user to prohibit unauthorized actions such as performing calibration or changing the settings. User IDs can also be used for barcode management.

Printing Data in Accordance with Various Regulations NEW

Printing can be customized to indicate when the measurements were taken and by whom. Users are free to set which items are to output, and in what order. The date, time, calibration log, and other information can be printed depending on the purpose of printing, which supports compliance with ISO, GLP, and GMP.

<Printed content>

- Date
- Time
- User name
- Balance manufacturer name
- User ID
- Serial number
- Balance ID
- Software version
- Minimum sample quantity
- Blank line
- Ruled line (-----)

USER02 USER03 USER04 USER05 User Selection Screen

An example of printing Title of result	CAL-INTERNAL
Manufacturer name —	ontaine ao com -
Model name —	
Serial number ————	— SN 000000001
Date	- DATE 2014 Dec.17
Time	- TIME 15.51.55
User name	YAMADA TARO
Standard weight value —	- REF= 300.0000g
	BFR= 299.9999g
before calibration	- AFT= 300.0000g
Weighing value after calibration	
	-COMPLETE
Signature	-SIGNATURE-

Minimum Measurement Value (Warning Function) NEW

Reproducibility can be confirmed by repeatedly measuring weights as instructed by AP series. The minimum sample quantity is automatically determined from the standard deviation and recorded in AP series.

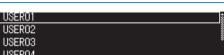
If the minimum sample quantity requirement is not satisfied during measurement, an indicator flashes to warn the user.



Minimum sample quantity

Recipe Function **NEW** (Achieve Your Preferred Compounding Process) (AP-W Series only)

Sample recipes can be registered, allowing users to simply follow displayed instructions. This is convenient when compounding medicines.



(All models)

(All models)

(All models)

Solutions to Improve Operational Efficiency and Ensure Data Reliability LabSolutions Balance Analytical Network Data System Compliant with ER/ES Regulations

- Eliminate manual entry, and all the weighing data are saved automatically in a safe database without transcription mistakes.
- Reports appropriate for weighing methods, such as the mass variation test, drying weight loss test and particle size test, can be created automatically after the measurement. In addition, customized reports featuring such information as system conformance, content uniformity and elution tests together with the analysis results obtained by HPLC, etc. can be created.



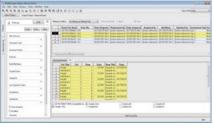
Main Window of LabSolutions Balance

Integrated Management of Analytical Data on Network System Using LabSolutions



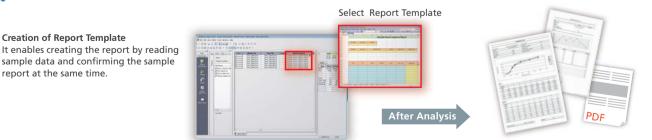
Compliant with the Latest Data Integrity Guidance (U.S. FDA 21 CFR Part 11)

- Weighing results can be automatically saved in the database together with other information, including sample ID, operator name, operation date and series number of instrument used. This enables quick data searching based on sample information.
- It allows setting up user authority to ensure only the authorized user can create a template for weighing.
- It prevents improper manipulation, unintended overwriting and deletion of data. In addition, measurement results, all the operation histories and reasons will be saved in the database as log files.



LabSolutions Data Manager

Integrated Report Creation Function Combines Analysis Results from HPLC and Weighing Results from Balance



Batch Analysis Window

Note: Multi-data report creation (optional) is necessary to use this function.

can be freely customized. create PDF files.

Report template formats Automatically print reports and

For Users of HPLC Systems

Buffer Solution Preparation Mode NEW

•Recipes for 13 commonly used buffer solutions are included as standard Preparation recipes for commonly used buffer solutions are provided as standard.

e.g. disodium phosphate, sodium acid citrate

•New buffer solution recipes can be registered

If a buffer solution is not registered by default, it can be newly registered.

Instructions are shown on the display

The target weighing value is shown on the display and analog bar in order to compare the target with the current weight. Manual calculation is not needed.

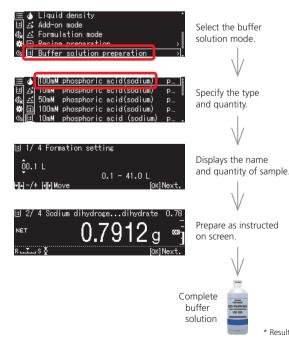
Record function

Record output with date, time and operator name.

The pH level of mobile phase (eluent) solutions used in liquid chromatographs is adjusted to improve separation of components and extend the life of columns. This pH adjustment process is performed using a buffer solution. Currently, the most common method is using a pH meter to measure the pH as the solution is prepared; however, this process requires considerable time and effort, which can cause operational bottlenecks. An alternative method does not require a pH meter. It involves preparing solutions by weighing fixed theoretically calculated quantities of an acid and base.

AP series supports weighing these acids and bases. If the type and quantity of the buffer solution are specified, the balance displays the type and quantity of sample that should be weighed. Then the buffer solution can be prepared easily by adding water to the specified quantity of sample weighed accordingly.

Preparation example: When weighing and preparing 50 mM of di-sodium hydrogen phosphate, 2-hydrate and 50 mM of sodium dihydrogenphosphate, 2-hydrate in order to prepare 3 L of 100 mM phosphoric acid (sodium) buffer solution at pH=2.1:



Number		Buffer solution preparation list	
1	100mM	phosphoric acid (sodium)	pH = 2.1
2	10mM	phosphoric acid (sodium)	pH = 2.6
3	50mM	phosphoric acid (sodium)	pH = 2.8
4	100mM	phosphoric acid (sodium)	pH = 6.8
5	10mM	phosphoric acid (sodium)	pH = 6.9
6	20mM	citric acid (sodium)	pH = 3.1
7	20mM	citric acid (sodium)	pH = 4.6
8	10mM	tartaric acid (sodium)	pH = 2.9
9	10mM	tartaric acid (sodium)	pH = 4.2
10	20mM	acetic acid (ethanolamine)	pH = 9.6
11	100mM	acetic acid (sodium)	pH = 4.7
12	100mM	boric acid (potassium)	pH = 9.1
13	100mM	boric acid (sodium)	pH = 9.1

* Results can be printed with date/time and user ID.

Example of preparation by AP series



(AP-W Series only)

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Sample Preparation NEW

When preparing a standard solution from a particular component, the standard powder for this component will be a hydrochloride or a hydrate. Preparing a standard solution of the target component at a desired requires difficult calculations prior to weighing it. With the AP series, however, the required weight value is automatically calculated, so it can be weighed without performing manual calculations.

Example of preparation by AP series

Weigh 25 mg Amitriptyline to make a standard solution

Standard sample of Amitriptyline is Amitriptyline Hydrochloride. Calculation is essential to determine part of Acidum hydrochloricum by molecular weight in order to make a 100 mg/mL Amitriptyline solution.

Molecular weight of Amitriptyline: 277.4

Molecular weight of Acidum hydrochloricum: 36.5

Checking weighing conditions on the same display

Molecular weight of Amitriptyline Hydrochloride: 277.4 + 36.5 = 313.9

To compare the molecular weight of Amitriptyline Hydrochloride with Amitriptyline, the following calculation is necessary.

313.9/277.4 = 1.132

The molecular weight of Amitriptyline Hydrochloride is 1.132 times of Amitriptyline. So, if 25mg of Amitriptyline is used, it follows that the weight of Amitriptyline Hydrochloride should be: $25 \text{ mg} \times 1.132 = 28.3 \text{ mg}.$

Hence, 28.3 mg of Amitriptyline Hydrochloride is needed to make the correct standard solution.

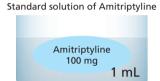
No need for manual calculation

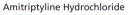
AP series can automatically calculate the sampling weight using the molecular amount of the standard sample, molecular weight of unnecessary sample, and the target value in order to reach the correct concentration solution.

Just weigh the target weight value on display and the target weight of the standard sample can be obtained.

	⊡Sample	preparation	AMITRIPTYLINE	
Target weighing value	⇒	→ Target	0.0283 g	_
Current sample value		> Gross	0.0283 g	013
Standard sample value		── → Picking	0.0250 g	i
	RuĭuSĂ			
			· · · · · · · · · · · · · · · · · · ·	

"OK" mark shown when target weight is reached.







Save Your Operation

ipped with USB as standard.^{*1} Includes many diverse functions to support users.

USB Offers Greater Expandability NEW

Equipped with an RS-232C connector, a USB device and a USB host as standard. You can now simultaneously send output to both a computer and printer or connect a USB flash drive, a barcode reader, or an external numeric keypad.

Transcription errors can be avoided and data can be recorded without a computer.

USB flash drive

Connecting a USB memory device allows you to record large amounts of weighing data in CSV format. Used in combination with the interval output function, it also enables recording of long-term changes over time.

Example of a record: File name Date and time Weighing value

*The information saved will differ depending on the function used.

Display capture function

Weighing display can be recorded into USB memory in BMP format. User name, date/time, and setting can be shown with display information.

The user name, time, measurement conditions, pass/fail judgments, and other information displayed on screen can be saved as is, enabling the recording of measurements, and checks after measurements.

Numeric keypad

Connecting a common external numeric keypad makes it easier to enter numeric values. This is especially useful for entering the mass value of weights, setting upper/lower limit values for the comparator function, or entering the sample count during piece counting mode.

Barcode reader

A barcode reader can be connected. Simply reading a barcode makes it possible to input user ID/Password. It is possible to manage sample IDs using barcodes.

An example of login by barcode User001 User ID card User002 User ID card User003 User ID card USE Connect

An ID and password are needed to log in to the AP series if protected access is activated. With the barcode, an operator can log in by scanning the barcode instead of inputting an ID and password.

* The latest information can be seen from the Shimadzu website (http://www.shimadzu.com/an/balance/)

(USB host: AP-W Series only)

USB and RS-232C are standard



*1 AP-W Series only









Easy-to-Read Organic EL Display

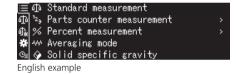
Because the pixel elements in the organic electroluminescence display emit light, the screen can be seen clearly even in dark locations. Multi-language display capability^{*2} provides a more intuitive operating interface. A wider viewing angle has also improved the visibility of measurement values, which helps increase the efficiency of measuring operations.

*2 Japanese, English and Chinese





Clearly visible from the side



Exceptional Visibility

The visibility remains the same even when viewed from different angles. The viewing angle is a wide expanse of ± 85 degrees, both vertically and horizontally. That means the display is clearly visible even when working beside the balance. A high-resolution dot-matrix display makes it easy to read detailed text.

Periodic Inspection Support Function NEW

AP series supports periodic inspections. The function allows inspection of repeatability, corner load error, and linearity by simply following instructions displayed on the screen.

Example of printing



(AP-W/AP-X Series only)

Printing sample REPEATABILITY LOAD MPE = 150 g = 0.0010 g N001 IL IØ = 150.0000 g = 0.0000 g IL: Loaded weight 10: Zero value N882 IL IØ = 149.9999 g =- 0.0001 g N003 149.9999 g - 0.0001 g IL IØ N884 149.9999 g 0.0000 g IL IØ N005 IL IØ 149.9999 N886 149.9999 g 0.0000 g IL IØ TEST RESULTS LOAD = 0. RESULIS = 0.0001 g (PASSED) = 0.0001 g (PASSED) ZER0

AP Series Advanced Performance UniBloc Balances 11

Wide Variety of Functions to Support Users

Smart Settings

(All models)

Response and stability settings can be changed during measurements with a single touch. Changing the settings for different applications can make it even easier to use.



The indicator is operated using the left and right arrow keys. Moving the setting toward [R] prioritizes response, which makes it easier to operate the balance. Conversely, moving it toward [S] makes it easier to stabilize weight values, which can improve readability in environments with vibration.



User-friendly arrow keys

Moving it left prioritizes response and moving it right prioritizes stability. Five setting levels are available.

Specific Gravity Measurement

(All models)

In combination with an optional specific gravity measurement kit, the balance can be used to measure specific gravity. Operations are simplified by a text-based navigation function. By using sinkers, the specific gravity of liquid can be measured as well. This allows measuring the specific gravity of metals, rubbers, plastics, and other materials easily.



First measure the empty weight.



Then place it in the container filled with water, as instructed on the screen.



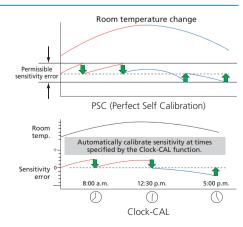
The specific gravity value is displayed using simple steps.



PSC and Clock-CAL

A Perfect Self Calibration (PSC) function is included. The analytical balance automatically detects any temperature changes that could affect sensitivity and automatically starts calibration.

The Clock-CAL function enables automatic calibration at a pre-specified time (for example, before starting work, during lunch, or after work hours).



(AP-W/AP-X Series only)

Recommended Functions of AP Series for Each Industry

Various user support functions are available in AP series. AP series provides solutions for each industry as follows.



* Ionizer, printer and specific gravity kit are optional items.

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AP Series Specifications

W Series Analytical Balances

Series	W Series					
Model	AP135W	AP125WD	AP225WD	AP124W	AP224W	AP324W
Capacity	135 g	120 g / 52 g	220 g / 102 g	120 g	220 g	320 g
Minimum Display	0.01mg	0.01 mg	/ 0.1 mg		0.1 mg	
Calibration Weight			Bui	lt-in	-	
External Calibration Weight Range for Span	45 to 135.0009 g	45 to 120.0090 g	95 to 220.0090 g	45 to 120.009 g	95 to 220.009 g	95 to 320.009 g
Calibration	(100 g)	(100 g)	(200 g)	(100 g)	(200 g)	(300 g)
Repeatability (Standard deviation)	0.05mg	0.1 mg / 0.02 mg	0.1 mg / 0.05 mg	0.1	mg	0.15 mg
Repeatability (for Low Loads)		0.015 mg (5 g low loads)	• •	0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)
Minimum Weight *1		30 mg			200 mg	
Linearity	±0.1 mg	±0.2 mg /±0.05 mg	±0.2 mg /±0.1 mg	±0.2	2 mg	±0.3 mg
Response Time for Trace Measurements *2			2 9	ec.	-	
Response Time *3	8 sec.	2 sec. /	/ 8 sec.	2 sec.		
USB Host (Type A)	Included					
USB Device (Type B)	Included					
Recipe Compounding	Included					
HPLC Buffer Solution Preparation			Inclu	uded		
mol Conversion Function			Inclu	uded		
Sample (Concentration) Preparation			Inclu	uded		
Inspection Support Function			Inclu	uded		
Clock-CAL			Inclu	uded		
Ionizer	Optional					
Operating Temperature/Humidity Range			5 to 40°C	20 to 85% ^{*4}		
Sensitivity Stability Against Temperature Range			±2 ppm/°C	(10 to 30°C)		
Pan Size			ø91	mm		
Body Dimensions	Approx. 212 (W) × 411 (D) × 345 (H) mm (power supply unit included)			Approx.	212 (W) × 367 (D) × 34	5 (H) mm
Weight	Approx. 7.9kg Approx. 7.0 kg					
Display		OEL display (dot matrix)				
Input/Output Terminal		RS-232C (D-sub9P plug) USB host (Type A) USB device (Type B) Ionizer				

X Series / Y Series Analytical Balances

Series	X Series			Y Series		
Model	AP124X	AP224X	AP324X	AP124Y	AP224Y	AP324Y
Capacity	120 g	220 g	320 g	120 g	220 g	320 g
Minimum Display			0.1	mg	-	-
Calibration Weight		Built-in			No	
External Calibration Weight Range for Span	45 to 120.009 g	95 to 220.009 g	95 to 320.009 g	45 to 120.009 g	95 to 220.009 g	95 to 320.009 g
Calibration	(100 g)	(200 g)	(300 g)	(100 g)	(200 g)	(300 g)
Repeatability (Standard deviation)	0.1	mg	0.15 mg	0.1	mg	0.15 mg
Repeatability (for Low Loads)	0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)	0.1 mg (5 g low loads)	0.1 mg (10 g low loads)	0.1 mg (20 g low loads)
Minimum Weight *1			200) mg	-	
Linearity	±0.2	mg	±0.3 mg	±0.2	2 mg	±0.3 mg
Response Time for Trace Measurements*2		2 sec.				
Response Time *3	2 sec.					
USB Host (Type A)			Not In	cluded		
USB Device (Type B)			Incl	uded		
Recipe Compounding			Not In	cluded		
HPLC Buffer Solution Preparation			Not In	cluded		
mol Conversion Function		Included			Not Included	
Sample (Concentration) Preparation			Not In	cluded		
Inspection Support Function		Included			Not Included	
Clock-CAL		Included			Not Included	
Ionizer	Optional Not Included					
Operating Temperature/Humidity Range			5 to 40°C	20 to 85% ^{*4}		
Sensitivity Stability Against Temperature Range			±2 ppm/°C	(10 to 30°C)		
Pan Size	ø91 mm					
Body Dimensions			Approx. 212 (W) × 3	67 (D) × 345 (H) mm		
Weight		Approx. 7.0 kg			Approx. 6.5 kg	
Display	OEL display (dot matrix)					
Input/Output Terminal	RS-232C (D-sub	9P plug) USB device ((Type B) Ionizer	RS-232C (E	D-sub9P plug) USB de	vice (Type B)

*1 According to USP Chapter 41. This is the tested value by the weight of the balance's capacity of 5%.

*2 The response time for displaying 90% of added sample amount value in trace measurements (from 1mg)

*3 The response time value is typical.

*4 Non-condensing.

0.01 mg / 0.1 mg model

AP135W (0.01 mg) AP125WD(0.01 mg / 0.1 mg) AP225WD(0.01 mg / 0.1 mg)



0.1 mg model

AP124W	AP124X	AP124Y
AP224W	AP224X	AP224Y
AP324W	AP324X	AP324Y



Options



STABLO-AP Ionizer



SMK-601 Specific Gravity Measurement Kit

Options

•
Static Electricity Remover STABLO-AP Ionizer
Electronic Printer EP-100
Electronic Printer EP-110 (Multifunction Printer with Liquid Crystal Display)
Label Roll Paper for EP-100/110 (10 Rolls)
Specific Measurement Kit SMK-601
Display Protective Cover (Set of 5)
USB Cable
AC Adapter (Standard Accessory)
Internal Windbreak Plate
RSIO Interface Cable



EP-100 Electronic Printer



Internal Windbreak Plate



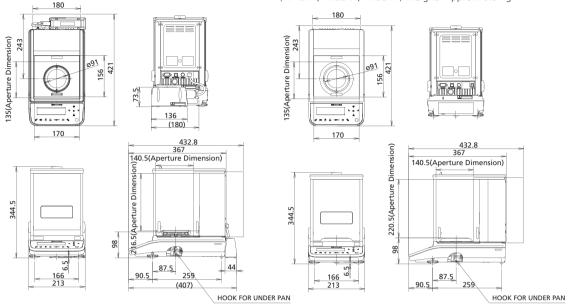
EP-110 Electronic Printer (multifunction printer with liquid crystal display)

▶

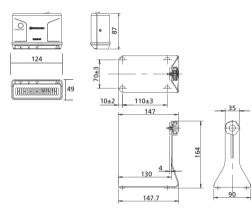
External Dimensions of AP Series

(AP135W, AP125WD, AP225WD) Weight: Approx. 7.9 kg

(AP124W, AP224W, AP324W, AP124X, AP224X, AP324X) Weight: Approx. 7.0 kg (AP124Y, AP224Y, AP324Y) Weight: Approx. 6.5 kg



External Dimensions of STABLO-AP



Static Electricity Remover STABLO-AP

2-Way Ionizer Designed Specifically for Electronic Balances

Ion Generation Method	AC corona discharge method
lon Balance	±10 V
Effective Static Removal Range	Approx. 50 mm to 400 mm from the outlet
Static Elimination Time (approx.)	1 second (Typical value) (from ± 1000 V to ± 100 V)
Ozone Concentration	Max. 0.06 ppm (at 150 mm from the center of the nozzle)
Electrode Probes	Tungsten (durability: 30,000 hours)
Weight	Approx. 710 g (Main unit: 395 g, Stand: 315 g)
Operating Temperature and Humidity	0 °C to +40 °C, 25 % RH to 85 % RH (non-condensing)
Rated Electric Power Supply	DC 24 V, 1.0 A
Dimensions	Approx. 124 × 87 × 49 mm

*1: Typical values when measured with a 20 pF 150 mm x 150 mm charged plate monitor (CPM), at 100 mm from the center of the nozzle (at the time of shipment)

*2: Elimination time from a static charge of ± 1000 V down to ± 100 V, at 100 mm from the center of the nozzle (at the time of shipment)



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