



NEW

AP Series
Advanced Performance UniBloc Balances



SHIMADZU
Excellence in Science

APW / X Series (Built-in Calibration)

AP124W / X- 120 x 0.1mg
AP224W / X- 220 x 0.1mg
AP324W / X- 320 x 0.1mg

APY Series

AP124Y - 120 x 0.1mg
AP224Y - 220 x 0.1mg
AP324Y - 320 x 0.1mg

Input/Output Terminal

W Series: RS-232C (D-sub9P plug), USB host (Type A), USB device (Type B), Ionizer
X Series: RS-232C (D-sub9P plug), USB device (Type B), Ionizer
Y Series: RS-232C (D-sub9P plug), USB device (Type B)

Functions Recommended for the Pharmaceutical Industry

- High-Security User Management **NEW**
- Minimum Sample Quantity (Warning Function) **NEW**
- Printing Data in Accordance with Various Regulations **NEW**
- Recipe Function (AP-W only) **NEW**

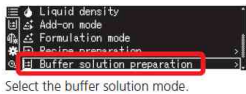
Built-in High-Performance Ionizer (Optional) NEW

A new ionizer is able to remove static electricity in about 1/10 the time of previous ionizers

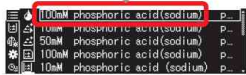
This unit allows acquisition of reliable weighing results by eliminating static electricity that can affect measurements without scattering powder.

Buffer Solution Preparation Mode NEW
For Users of HPLC Systems (APW only)

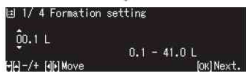
Example of preparation by AP series



Select the buffer solution mode.



Specify the type and quantity.



Displays the name and quantity of sample.



Prepare as instructed on screen.



Complete buffer solution

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

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

· Recipes for 13 commonly used buffer solutions are included as standard e.g. disodium phosphate, sodium acid citrate

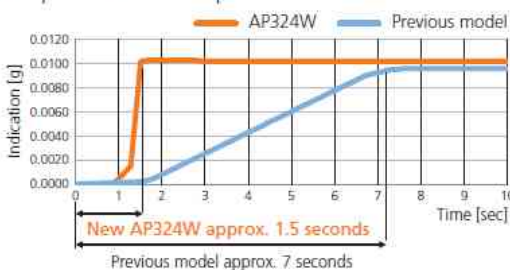
· Instructions are shown on the display
The target weighing value is shown on the display and analog bar in order to compare the target with the current weight. Manual calculation is not needed.

· Record function
Record output with date, time and operator name.

Fastest Response in its Class* with UniBloc AP Technology
Shimadzu analytical balances boast a one-piece UniBloc weighing sensor, which is now even more advanced. The improved UniBloc sensor offers faster response time from 7 seconds (previous model) to 1.5 seconds.

*Compared to previous Shimadzu models

Response Time Comparison



USB Offers Greater Expandability (USB host : APW only) NEW

Equipped standard with an RS232C connector, a USB device and a USB host. 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.



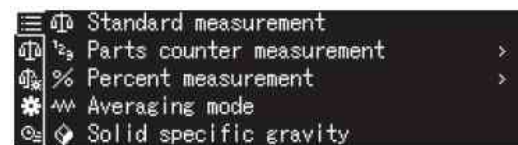
USB and RS-232C are standard

USB host is available for APW

USB memory device

Easy-to-Read Organic EL Display NEW

Multi-language display capability* 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.



English example



Supporting More Efficient Laboratory Work and Providing Higher Reliability.

Weighing results and analysis results can be stored in a database. Reports can be generated according to results in a prescribed format.

AP series

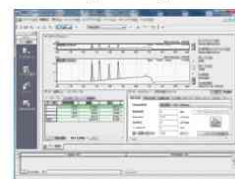
UHPLC Nexera X2



Weighing results by Balance



Analysis results by LC



Smart Settings

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.



Patented

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



機種機能一覧表

SHIMADZU Excellence in Science

AU Series

AT Series

TX Series (small pan)

UX Series
(large pan)

TX Series
(big pan)

BX-K Series

MOC Series



Type Of Balance	Model	Capacity	Readability	Pan Size	Auto Calibration	Wind Breaker
Semi-micro 	AUW 120D	120g / 42g	0.1mg / 0.01mg	≈ Ø 80mm	Yes	Yes
	AUW 220D	220g / 82g	0.1mg / 0.01mg	≈ Ø 80mm	Yes	Yes
Analytical 	AUX 320	320g	0.1mg	≈ Ø 80mm	Yes	Yes
	ATX 324	320g	0.1mg	≈ Ø 91mm	Yes	Yes
	ATX 224	220g	0.1mg	≈ Ø 91mm	Yes	Yes
	ATY 324	320g	0.1mg	≈ Ø 91mm	No	Yes
	ATY 224	220g	0.1mg	≈ Ø 91mm	No	Yes
Precision 	UW6200H	6200g	0.01g	≈ 170mm x 180mm	Yes	No
	UX4200H	4200g	0.01g	≈ 170mm x 180mm	No	No
	UX1020H	1020g	0.001g	≈ 108mm x 150mm	No	Yes
	TX3202L	3200g	0.01g	≈ 167mm x 181mm	No	No
	TX323L	320g	0.001g	≈ Ø 110mm	No	Yes
High Precision 	BX52KS	52Kg	1g	≈ 345mm x 250mm	No	No
	BX22KH	22Kg	0.1g	≈ 345mm x 250mm	No	No
Moisture Balance 	MOC63U	60g	0.001g	≈ Ø 95mm	No	No

機種機能一覧表

TXB Series
(large pan)

TXB Series
(small pan)

ELB Series
(big pan)

ELB Series
(small pan)



Type Of Balance	Model	Capacity	Readability	Pan Size	Auto Calibration	AC / Battery Operation
Precision 	TXB 6201L	6200g	0.1g	≈ Ø 160mm	No	Yes
	TXB 622L	620g	0.01g	≈ Ø 110mm	No	Yes
Portable 	ELB 3000	3000g	0.1g	≈ 170mm x 130mm	No	Yes
	ELB 300	300g	0.01g	≈ Ø 110mm	No	Yes

Accessories

動物測定モード



Animal Weighing Bucket



比重測定



Density / Specific Gravity Measuring Kit



プリンタ



Electronic Printer

除電器



Static Remover