

# NEW ANALYTICAL BALANCE AP SERIES (0.1MG MODEL)

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This is to inform the release of the Shimadzu New Range of Analytical Balance, AP Series. We have separated the product release into 2 Phases. Phase-1 would be 4 decimals and Phase-2 5 decimals analytical balance.

There are of 3 main models, AP-W, AP-X & AP-Y series (minimum display value of 0.1mg) which make up of 9 different models. This advance AP series is designed to offer functionality supporting HPLC, LCMS and other analytical instruments, with fast response time and excellent stability which help to reduce the work involved in weighing samples.

0.1 mg models

AP124W	AP124X	AP124Y
AP224W	AP224X	AP224Y
AP324W	AP324X	AP324Y



▪ **New Functionality**

- (1) Buffer Solution Preparation (for AP-W series)
- (2) Sample Preparation (for AP-W series)
- (3) Recipe function (AP-W only)
- (4) Mol. unit measurement
- (5) Built-in Static removal (optional)
- (6) Period Inspection Support (for AP-W/AP-X series)

P/No.	Model	Weight/Minimum Display
321-74501-01	AP124W	0.1mg
321-74501-02	AP224W	0.1mg
321-74501-03	AP324W	0.1mg
321-74501-04	AP124X	0.1mg
321-74501-05	AP224X	0.1mg
321-74501-06	AP324X	0.1mg
321-74501-07	AP124Y	0.1mg
321-74501-08	AP224Y	0.1mg
321-74501-09	AP324Y	0.1mg

▪ **Date of Launching:** January 2017

▪ **Advantage of the new model**

- a. Fast response time
- b. Lock Spec. for tender: Built-in Buffer solution, Sample preparation, Mol unit measurement functions
- c. Support Lab solution software for Pharma

## New Analytical Balance AP Series (0.1mg)

### AP Series Specifications

- **AP-W** Series Analytical Balances

Series	W - Series		
Model Name	AP124W	AP224W	AP324W
Capacity	120g	220g	320g
Minimum Display	0.1mg		
Calibration Weight	Built-in		
Repeatability 6	0.1mg		0.15mg
Calibration Range with Ext.Weight	45 to 120.009g (100g)	95 to 220.009g (200g)	95 to 320.009g (300g)
Linearity	±0.2mg		±0.3mg
Minimum Weight	200mg		
Respond Time[sec]	2 sec		
Room Temperature	5-40 °C 20-85%		
Temp. Coeffi Sensitivity	±2ppm/°C (10°C to 30°C)		
Pan Size[mm] (approx.)	Ø91 mm		
Main Body Size [mm] (approx.)	212W x 367D x 345H mm		
Main Body Weight [mm] (approx.)	7.0 kg		
<b>*List Price (Indicative)</b>	<b>USD 2,400</b>	<b>USD 2,500</b>	<b>USD 2,650</b>

- **AP-X & AP-Y** Series Analytical Balances



Series	AP-X & AP-Y Series					
Model Name	AP124X	AP224X	AP324X	AP124Y	AP224Y	AP324Y
Capacity	120g	220g	320g	120g	220g	320g
Minimum Display	0.1mg					
Calibration Weight	Built-in			No		
Repeatability 6	0.1mg		0.15mg	0.1mg		0.15mg
Calibration Range with Ext.Weight	45 to 120.009g (100g)	95 to 220.009g (200g)	95 to 320.009g (300g)	45 to 120.009g (100g)	95 to 220.009g (200g)	95 to 320.009g (300g)
Linearity	±0.2mg		±0.3mg	±0.2mg		±0.3mg
Minimum Weight	200mg					
Respond Time[sec]	2 sec					
Room Temperature	5-40 °C 20-85%					
Temp. Coeffi Sensitivity	±2ppm/°C (10°C to 30°C)					
Pan Size[mm] (approx.)	Ø91 mm					
Main Body Size [mm] (approx.)	212W x 367D x 345H mm					
Main Body Weight [mm] (approx.)	7.0 kg			6.5 kg		
<b>*List Price (Indicative)</b>	<b>USD 2,100</b>	<b>USD 2,200</b>	<b>USD 2,350</b>	<b>USD 1,750</b>	<b>USD 1,850</b>	<b>USD 1,950</b>

\* List Price varies by country depending on country import tax, local taxes etc.

▪ **Optional Accessories**

P/N	Description
321-60550-03	SMK-601 Specific Gravity Measurement Kit
321-71730-41	USB Cable Set
321-73929	AC Adapter, 3A-163WP12
321-73901-02	AC ADAPTOR, FOR EP-100/110
321-73668-01	Display Protective Cover (5 sets)
321-73700-02	STABLO-AP, FOR CE
321-73900-11	EP-100, for overseas
321-73900-12	EP-110, for overseas
321-74150-01	Internal Windbreak Plate
321-75705-41	RSIO Adapter Cable

▪ **Comparison Chart - Compare with AU Series**

Model	AP Series	AU Series	Advantages of AP Series
Appearance			
Response Time for weighing trace quantities	2 sec	3 sec	Faster response time
Display	OLED	LCD	Wider viewing angle improves visibility Text displayed by dot matrix
Built-in Ionizer (Option)	Yes (W/X series)	No	User installable
Buffer Solution Preparation Mode	Yes (W series)	No	Buffer solution preparation procedure displayed
Inspection Support Function	Yes (W/X series)	No	Displays periodic inspection procedures on the screen.
Support Shimadzu Lab Solutions	Yes	No	AP can be connected to Lab Solution server via network

## New Analytical Balance AP Series (0.1mg)

### Competitive Chart - Comparison with Competitors - Shimadzu **Lock Spec**

-Detailed Comparison, please request from SAP

Model	Shimadzu	Mettler	Sartorius	Ohaus	A&D	Radwag
Appearance	AP Series 	MS/ML/ME Series 	Quintix Series 	EX Series 	BM/GR/GH Series 	XA/AS Series 
Response Time for weighing trace quantities	2 sec	2 sec	2 sec	3-3.5 sec	3-3.5 sec	3-3.5 sec
Display	OLED	LCD with Back lite	Touch Screen	Touch Screen	LCD	Touch Screen
Built-in Ionizer (Option)	Yes (W/X series)	No	No	No	No	No
MSQ Calculation Alarm	Yes	No	No	No	No	No
Buffer Solution/Sample Preparation Mode	Yes (W series)	No	No	No	No	No
Recipe Function	Yes (W series)	No	No	No	No	No
User Management	Yes	No	No	No	No	No
Support Lab Solutions Server	Yes	No	No	No	No	No

% Model picture may varies according to the series name, above is a general comparison

### Brochure

- ✓ AP Series Brochures. No.c054e071 - 50 pcs per pack. Available upon request
- ✓ E-Catalogue download: [Brochure](#) ( 2,486 KB )
- ✓ Video:



## New Analytical Balance AP Series (0.1mg)

- Common Spare Parts & Accessories (for details, please refer to the AP series instructions manual)

No.	Descriptions	Part No.
1	Pan Supporter (Including rubber)	S321 71052
2	Pan Supporter (Including rubber)	S321 74011 01
3	Shield Plate	S321 74027 01
4	Level Screws	S321 71069 01
5	Right Glass Draft Shield ASSY (Including handle and Knob)	S321 71043 22
6	Left Glass Draft Shield ASSY (Including handle and Knob)	S321 71043 21
7	Top Glass Draft Shield ASSY (Including handle and Knob)	S321 71041 21
8	Front Glass ASSY	S321 62931 02
9	Right Door Rails	S321 73614 02
10	Left Door Rails	S321 73114 01
11	Set of 5 Protection Covers	S321 73668 01
12	Set of 4 Rubber Fittings for the Pan	S321 62984 03
13	Set of 3 Knobs for the Glass Draft Shield	S321 62985 21
14	Adapter Cable Holder	S321 60330 02
15	Instruction Manual	S321 78166
16	Electronic Printer EP100	S321 73900 11
17	Electronic Printer EP110	S321 73900 12
18	Specific Gravity Kits SMK-601	S321 60550 03
19	Stablo AP Ionizer	73700 02
20	RSIO Conversion Cable	75705 41
21	USB Cable Set	71730 41

- EP Printers: EP100 & EP110 [Brochure](#) ( 272KB)



EP-110

EP-100

