

Specific Gravity Analyzer

AU series

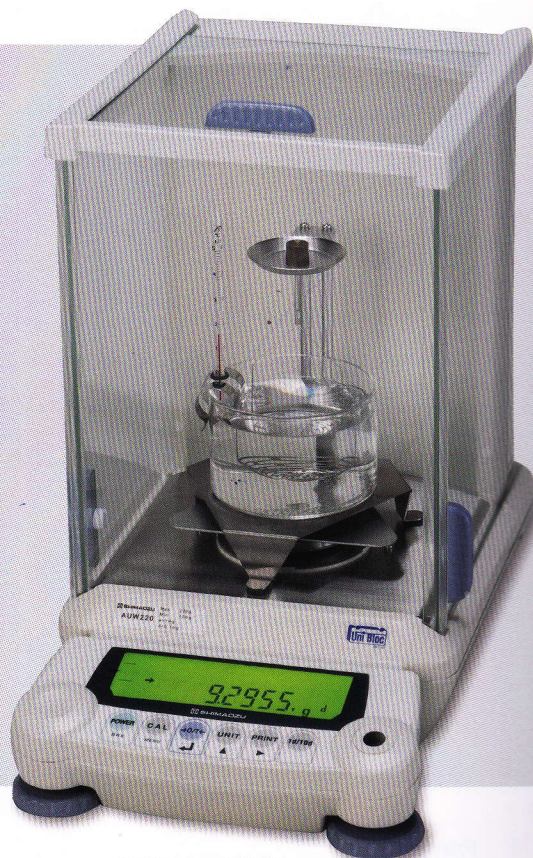
Measures a Variety of Gravity Values with the Immersion Method

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Attach the optional SMK401 Specific Gravity Measurement Kit to a balance in the AU series, and set the balance to specific gravity measurement mode. You can then use the balance as a specific gravity analyzer, capable of automatically calculating and displaying specific gravity values.

Liquid density can also be measured by using an optional sinker.

Various models of balances are available, including a semi-micro (0.01mg) model. Choose the model best suited to the sample amount and required precision in your application. (See pages 16 and 17.)

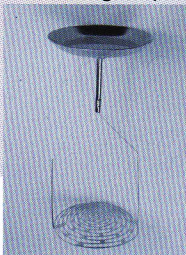
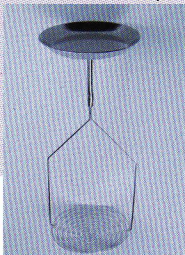


AUW Series + SMK-401

Two kinds of weighing pans as standard.

For standard sample

For floating sample



For detailed Balance specifications see pages 16 and 17.

AU Series

Model name	AUW-D Series		AUW Series			AUX Series			AUY Series	
	AUW220D	AUW120D	AUW320	AUW220	AUW120	AUX320	AUX220	AUX120	AUY220	AUY120
Capacity	220 g/82 g	120 g/42 g	320 g	220 g	120 g	320 g	220 g	120 g	220 g	120 g
Minimum display	0.1 mg/0.01 mg		0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Repeatability	0.1 mg/0.05 mg	0.1 mg/0.02 mg	0.15 mg	0.1 mg	0.1 mg	0.15 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Pan size (mm)	Approx ø80									
Body Dimensions	Approx. W220 x D430 x H340 mm									
Weight	Approx 7kg									

Specific Gravity Measurement kit

Description
SMK-401

Optional Accessories

Description
Liquid Density Sinker for SMK-401

So Simple!

Introduction to the Specific Gravity Measurement Procedures (AU Series)

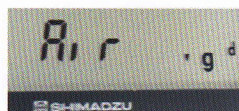
1

Assemble the Specific Gravity Measurement Kit.

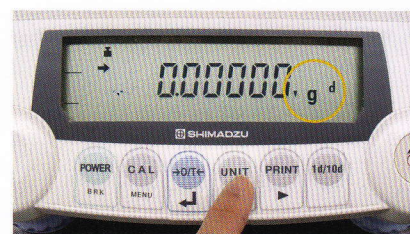


2

Set the balance to specific gravity measurement mode. Then press the UNIT key several times until the display unit changes to "▼d."



As shown in the photo at left, "Air" will be displayed for a while, and the in-air weight is then measured.



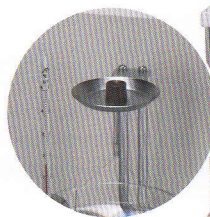
3

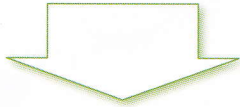
Press the O/T key to subtract the tare.



4


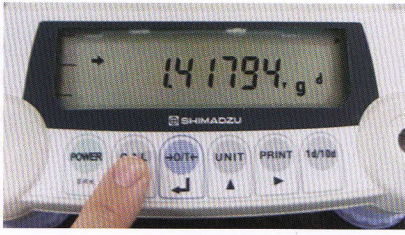
Load the solid sample on the in-air pan.



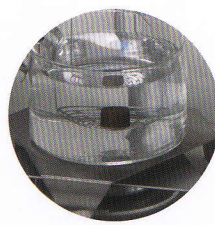



5 When the stability mark is lit, press the CAL key.

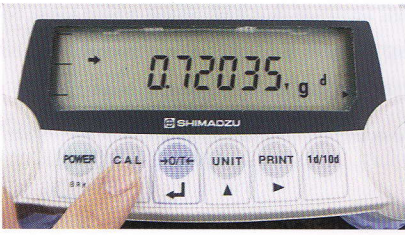
As shown in the photo at left, "wAtEr" will be displayed for a while, and the submerged weight is then measured.

6 Load the solid sample on the submerged pan.

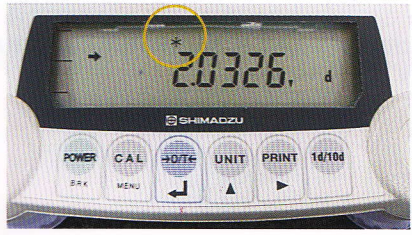



7 When the stability mark is lit, press the CAL key.



8 A "*" will be displayed in the numerical display, and the specific gravity of the solid sample will be displayed.

To return to in-air measurement, press the CAL key to display "Air" for in-air weight measurement.



Sample	Specific gravity
Aluminum	2.68±0.1
Brass	8.45±0.4
Copper	8.8 ±0.4

*Results will differ depending on the shape and surface status of the sample, and the measurement conditions.
 The values in the table are at best reference values, and their precision is not guaranteed.