

Analytical Balances

AT-R series

Basic Model with Improved Convenience

- Freely set responsiveness or stability
- Connect with a computer via USB or RS232C
- Perform stable measurements in combination with an ionizer

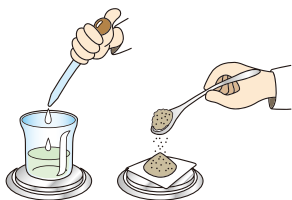


Features of the AT-R Series

1 Easy Settings Enable Responsiveness and Stability to be Freely Changed

Responsiveness becomes very important when weighing fixed amounts of powders and liquids. On the other hand, stability is required when weighing substances in environments subject to drafts or vibrations.

The AT-R balances are equipped with a 5-stage indicator. It is easy to switch between a response focus (R) and a stability focus (S) during measurements.



Response-focused (R)
for weighing process



Stability-focused (S)
when vibrations
become a concern



2 Equipped with Two Interfaces: USB and RS232C

The balances are equipped as standard with two convenient interfaces for connection with a computer or PLC (programmable logic controller). Human error can be prevented by direct transfer of weight values to the computer.

●The balances have been shown to operate with the following PLCs from major companies.

- Mitsubishi Electric Q Series
- Keyence KV-8000
- OMRON CJ2 Series
- IDEC FC6A Series



3 Addition of an Ionizer Increases Measurement Reliability

The optional STABLO™-AP ionizer (static remover) quickly removes static from samples and containers, without creating a draft. This prevents reproducibility errors and fluctuations in measurement values due to static electricity. The static elimination can be enhanced by placing flasks in the AP Holder (sold separately).



AP Holder



STABLO-AP

AT-R Series Specifications

Model	ATX324R	ATX224R	ATX124R	ATX84R	ATY324R	ATY224R	ATY124R	ATY64R
Weighing Capacity	320g	220g	120g	82g	320g	220g	120g	62g
Minimum Display	0.1mg							
Pan Size	Approx. 91 mm dia.							
Dimensions	Approx. W213 × D356 × H338 mm							
Weight	Approx. 6.2 kg				Approx. 6.0 kg			
Required Power Supply	AC adapter (input 100-240 V AC, 50/60 Hz, output 12 V, 1 A)							
I/O Terminals	RS232C (D-sub 9P plug), USB device (Type B)							
Calibration Weight	Built-in				External weight			

Optional Accessories

Description
EP-100 Printer
EP-110 Printer
USB Cable Set
SMK-501 Specific Gravity Measurement Kit
AP Holder
Protective Cover (5 pc set)
AC Adapter (provided as standard with the main unit)

For Counteracting Static Electricity Ionizer for Electronic Balances

STABLO-AP

Description
STABLO-AP

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BL-3200H

High-precision Electronic Balances

BL Series

Very quick response

Very fast response makes a great difference. Even repeated weighing work is comfortable and efficient.

Compact body

The BL Series provides a high-precision electronic system that is just as compact as a portable scale.

High stability

The high stability mode of the BL Series produces steady readings even under poor environmental conditions.

Various unit conversions

Percentage mode, and various unit conversions are standard. Switching between these functions and units is a simple key-touch.

Analog bar display

Remaining weighing capacity can be seen at a glance. Especially helpful when filling containers on the balance.

Square pan

Equipped with square pan for ease of operation.

Interface capabilities

Optional EP-100/110 printer can be connected directly to BL Series balances to produce reports. An optional interface is available to enable communication with a PC.

Piece counting function

Quantity can be read as soon as parts are placed on the pan. To set, just load ten pieces and press the key. Pressing the key at 20, 50, or 100 pieces will produce even greater precision, especially for smaller parts. Switching between piece counting and gram display is a single key-touch.



BL-220H
BL-320H



BL-320S



BL-620S
BL-3200S
BL-2200H
BL-3200H

Specifications

Model	BL-3200HL	BL-3200H	BL-2200H	BL-320H	BL-220H	BL-3200S	BL-620S	BL-320S
Capacity	3200 g	3200 g	2200 g	320 g	220 g	3200 g	620 g	320 g
Minimum display	0.01 g	0.01 g	0.01 g	0.001 g	0.001 g	0.1 g	0.01 g	0.01 g
Repeatability (standard deviation)	$\sigma \leq 0.01$ g	$\sigma \leq 0.01$ g	$\sigma \leq 0.01$ g	$\sigma \leq 0.001$ g	$\sigma \leq 0.001$ g	$\sigma \leq 0.06$ g	$\sigma \leq 0.01$ g	$\sigma \leq 0.006$ g
Linearity	± 0.03 g	± 0.03 g	± 0.02 g	± 0.003 g	± 0.002 g	± 0.1 g	± 0.01 g	± 0.01 g
Response time (approx.)	1.0–1.2 sec.					0.8–1.0 sec.		
Ambient temperature	5–40°C							
Temperature coefficient of sensitivity (10–35°C)	± 5 ppm/°C (10–30°C)		± 3 ppm/°C	± 5 ppm/°C (10–30°C)	± 3 ppm/°C	± 10 ppm/°C		
Pan size (mm)	160 × 124			100 × 100		160 × 124		100 × 100
Dimensions (approx.)	170 W × 240 D × 75 H mm							
Weight (approx.)	2.2 kg							
Power requirements	AC adaptor; 90 V–264 V, –15%–+10%, 50/60 Hz							
Standard accessories	Protective in-use cover			Simple windbreak (brown smoke color), Protective in-use cover		Protective in-use cover		
Display	LCD with back light	LCD						

Options

- AC Adaptor for EP-100/110
Electronic Printer EP-100/110
(For 120/220 VAC)
- IFB-102A
RS-232C Interface



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