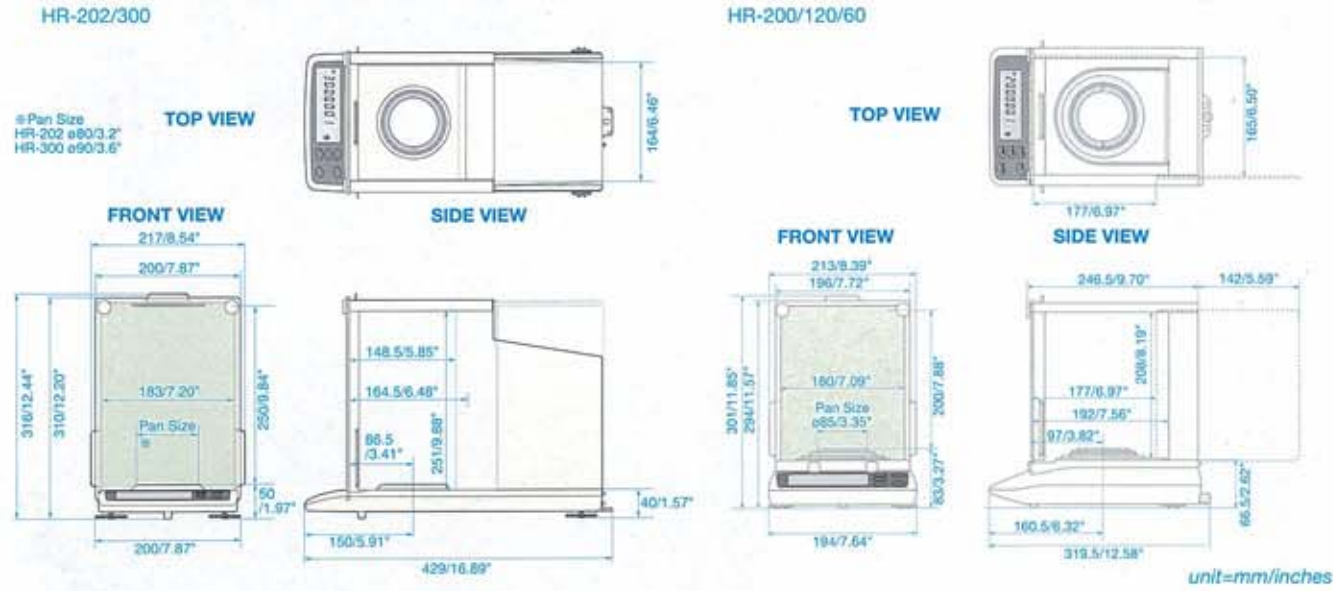


Physical Dimensions



Specifications

Capacity/Resolution	HR-202	HR-300	HR-200	HR-120	HR-60
Gram (g)	210 × 0.0001 / 42 × 0.00001	310 × 0.0001	210 × 0.0001	120 × 0.0001	60 × 0.0001
(mg)	210000 × 0.1 / 42000 × 0.01	310000 × 0.1	210000 × 0.1	120000 × 0.1	60000 × 0.1
Decimal Ounce (oz)	7.4 × 0.00001 / 1.4 × 0.000001	10 × 0.00001	7.4 × 0.000005	4.2 × 0.000005	2.1 × 0.000005
Troy Ounce (ozt)	6.7 × 0.00001 / 1.3 × 0.000001	9.9 × 0.00001	6.7 × 0.000005	3.8 × 0.000005	1.9 × 0.000005
Pennyweight (dwt)	135 × 0.0001 / 27 × 0.00001	199 × 0.0001	135 × 0.0001	77 × 0.0001	38 × 0.0001
Carat (ct)	1050 × 0.001 / 210 × 0.0001	1550 × 0.001	1050 × 0.001	600 × 0.001	300 × 0.001
Momme (mom)	56 × 0.0001 / 11 × 0.00001	82 × 0.0001	56 × 0.00005	32 × 0.00005	16 × 0.00005
Grain Unit (GN)	3240 × 0.002 / 648 × 0.0002	4784 × 0.002	3240 × 0.002	1851 × 0.002	925 × 0.002
Tola (t)	18 × 0.00001 / 3.6 × 0.000001	26 × 0.00001	18 × 0.00001	10 × 0.00001	5 × 0.00001
Tael (TL)	5.5 × 0.00001 / 1.1 × 0.000001	8.2 × 0.00001	5.5 × 0.000005	3.1 × 0.000005	1.5 × 0.000005
Percentage Min Div.	0.01%, 0.1% or 1% (auto prompt)				
Counting Min Weight	0.1mg				
Linearity	±0.0002/±0.00003g	±0.0003g	±0.0002g		
Repeatability/Std. Dev.	0.0001/0.00002g	0.0002g	0.0001g		
Stabilization Time	3.5/8 seconds (typically)	3.5 seconds (typically)	3 seconds (typically)		
Sensitivity Drift	±2ppm/°C (10°C~30°C/50°F~86°F)				
Display Refresh	5 times per second / 10 times per second				
Pan Size	ø 80mm/3.2inches	ø 90mm/3.6inches	ø 85mm/3.3inches		
Physical Dimensions	mm	217 (W) × 429 (D) × 316 (H)	213 (W) × 319 (D) × 301 (H)		
	inches	8.5 (W) × 16.9 (D) × 12.4 (H)	8.4 (W) × 12.6 (D) × 11.9 (H)		
Breeze Break Dimensions	mm	183 (W) × 164 (D) × 250 (H)	180 (W) × 192 (D) × 200 (H)		
	inches	7.2 (W) × 6.5 (D) × 9.8 (H)	7.1 (W) × 7.5 (D) × 7.9 (H)		
Operating Temperature	5°C~40°C/41°F~104°F RH less than 85%				
Weight	Approximately 8.0kg/ 17.6 lb		Approximately 5.7kg/ 12.5 lb		
Calibration Mass (Optional)	100g/200g	200g/300g	100g/200g	50g/100g	50g
Power	100, 120, 220, 240 VAC (AC Adaptor) 50Hz/60Hz		100, 120, 220, 240 VAC (AC Adaptor) 50Hz/60Hz 10 hours continuous operation with rechargeable battery pack (option)		
Standard Accessories	Manual, AC Adaptor, Protective Cover				

Options

- OP-03 — Serial Interface (RS-232C/Current Loop)
- OP-05 — Serial Interface (Current Loop)
- OP-09 — Rechargeable Battery Pack (NiMH)
(Only for HR 200/120/60)

Accessories

- AD-1653 — Density Determination Kit
- AD-8121 — Multi-Function Printer
- AD-8118B — Universal Printer
- AD-8524B — Keyboard Adaptor (for IBM Compatible PC)
- AD-8918 — External Display

Specifications are subject to change without notice.

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* HR-ADCC-13-HO10-06203

HR Series

Analytical Balances

Compare... Price · Performance · Value
There's none better!

HR-202

210g × 0.1mg
42g × 0.01mg

HR-300

310g × 0.1mg

HR-200

210g × 0.1mg

HR-120

120g × 0.1mg

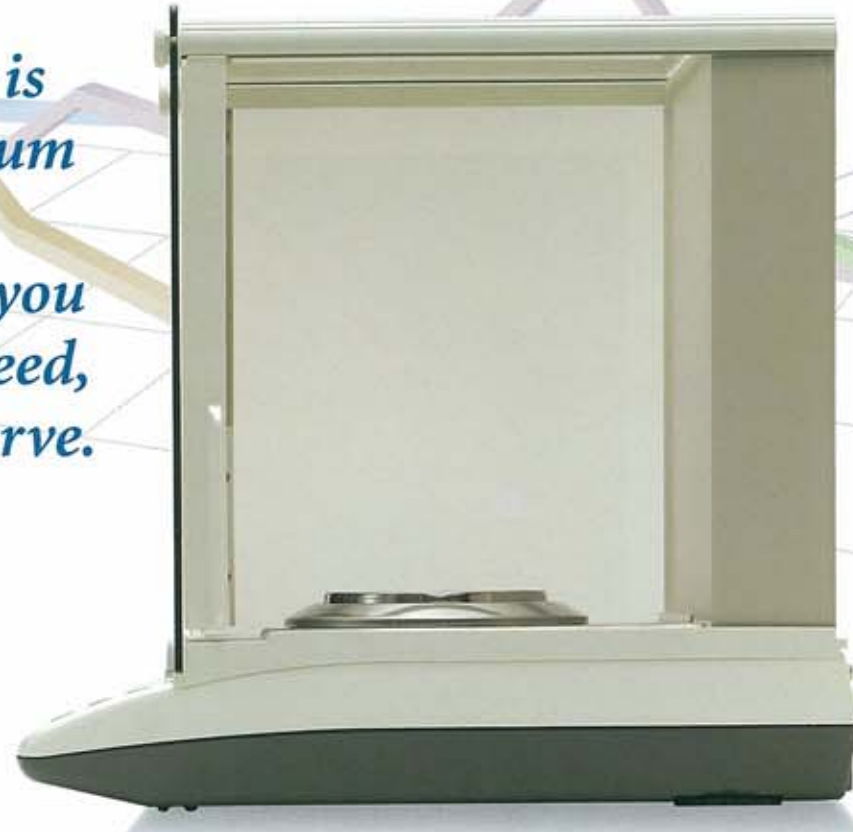
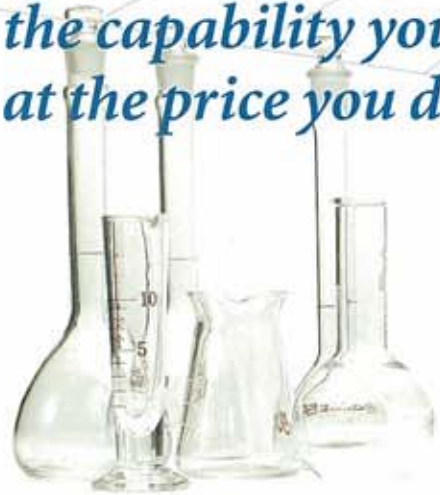
HR-60

60g × 0.1mg



A&D ...Clearly a Better Value
A&D Company, Limited
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Every A&D balance is designed for maximum performance. The HR series gives you the capability you need, at the price you deserve.



0.01mg Semi-Micro Dual Range Weighing

Automatically selects ultra fine 0.01mg resolution in the 0 - 42g range .



Simple Operation

Perform any operation with simple, clearly marked key entry.

Adapts to Your Environment

Mode Key: Changes weighing unit and alters condition of response to immediately adapt to changing environmental conditions.

Zero Point Calibration: Calibrates zero independently of span.

Selectable Calibration Mass capability: Corrects for errors in calibration weight.

Wide range of software parameters: Controls reaction to environment and communications output.

Range Key: Disables least significant digit for better display stability in unstable areas.

Strong Construction: Aluminum alloy that won't chip, crack or wear out for many years of trouble free use.

Greatest Flexibility

- Wide range of capacity/resolution models 42g/0.01mg ~ 310g/0.1mg
- Multiple weighing modes.
- Underhook capability for density measurement and weighing magnetic material.
- System Diagnostics provides error signals advising of: Low Battery, Overload Error, Weighing Pan Error, Power Failure Error, Stability Error, Digital Re-Zero Error, Zero-point Error and Calibration Errors.
- Digital Tare Capability: Allows manual or computer input of a tare weight. Use in wide range of tracking studies, such as daily weight gain/loss measurements in test animals, standard deviation, etc. Or the input of tare weights.
- Optional battery pack for portability and use in areas with low power problems. (Only for HR-200, 120 and 60)

Balance ID number allows Calibration output verification

Allows GLP or LIMS balance management by outputting the ID number and weight used to calibrate the balance, to A&D's AD-8121 printer or computer, which then can print date, time, balance ID number and calibration weight.

```

MODEL    HR-200
S/N      12345678
ID       1000 -A
DATE     01/01/00
11:18:30 AM
CALIBRATED
+000.0000 9
+200.0002 9
CAL. WEIGHT

SIGNATURE
  
```

Optional Internal Rechargeable Battery OP-09 (Only for HR-200, 120 and 60)

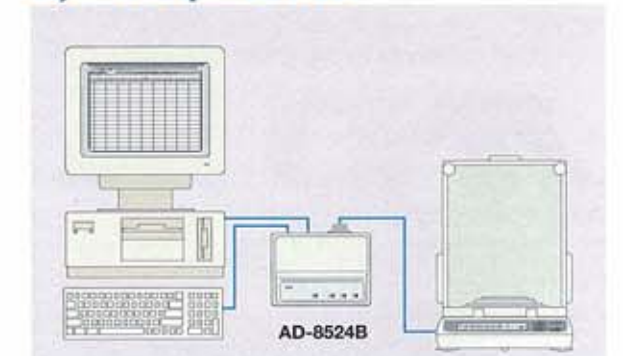


Density Determination Kit AD-1653



Print format for verifying the calibration

Keyboard Adaptor AD-8524B



Input numerical data into a spreadsheet program.