

Semi-Micro Analytical Balances

# GR Series



*Ergonomic, space-saving design  
with easy access door*

**AND**  
A&D Company, Ltd.

Discover Precision

<http://www.aandd.jp>

# Superb “New Generation” Analysis!

Speedy & Simple Operation to Maximize Performance

## Easy Access Door

A unique system allows the user to conveniently open or close the left or right side of the weighing chamber using a control lever.

This system allows quick and efficient access to the weighing chamber.



Open left or right side from front

## One Touch Calibration

Allows quick calibration with one push of the CAL key.

## Automatic Adjustable Environment Setting

Adapts automatically to the most suitable Environment Response Setting to minimize adverse external effects. “FAST”, “MID” or “SLOW” is displayed.



## Automatic Self Calibration

Performs self calibration automatically when a change of ambient temperature exceeds the preset temperature range.



## 13 Multiple Weighing Units

g, mg, pcs, %, oz, ozt, ct, mom, dwt, GN, tl, t (tola), m (messghal)

## Two Layer Housing

Durable construction minimizes negative effects of ambient temperature changes.

## Splash Proof Keyboard and Display

Protected from dust and spills.

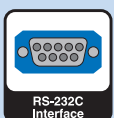
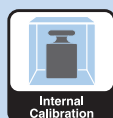
## Data Memory Function

Stores up to 200 sets of weighing data. Data can be output using numerical codes.



## GLP/GMP Compliant

Allows GLP or LIMS balance management by outputting the Balance ID number and weight used to calibrate the balance. The data can be output to A&D's AD-8127 printer or a computer, indicating date, time, Balance ID number and calibration weight.



# Space-Saving Design



The GR Series has a 30% smaller footprint compared with conventional balances.

Its tall weighing chamber can accommodate large beakers. The glass panes disappear into the back when opening the door, requiring no extra space at the rear of the balance.



## Underhook

Ideal for density measurement and weighing magnetic substances

## RS-232C Interface

Enables bi-directional communication with a PC or printer.

## Quick Reference Card

A fast and convenient operation guide.



## WinCT–Window Communication Tools

WinCT is Windows Communication Tools Software, providing easy transmission of weighing data from A&D Balances to a PC using RS-232C interface.

Data can be transferred in a manageable format limited only by a PC's capability.

### WinCT consists of three applications:

**RsKey** allows weighing data to be directly pasted into a Windows application such as Microsoft Excel or Word, but this application cannot use “commands” to control the balance.

**RsCom** can transmit weighing data to a PC using a text file format and can transmit “commands” to control the balance. “Commands” include Calibrate, On/Off, Print, Query weight data, Re-zero, Range, Sample, Mode and Zero.

**RsWeight** can retrieve weighing data from a balance and display it in graph form on a PC screen in real-time. Maximum, minimum, average, standard deviation and coefficient of variation values of data can be calculated and displayed.

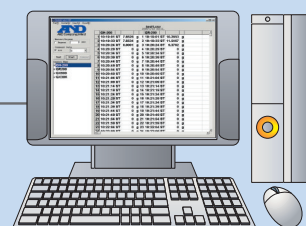


GR Series

RS-232C  
(Standard)

Cable : AX-KO1710

\* For a PC with no serial (RS-232C) port, please use the separately-sold AX-USB-25P serial/USB converter and cable set.



Win CT

RsCom, RsKey and RsWeight offer user selectable time, date, sequential #, interval transmission and GLP/GMP data. A readme file contains all setup, operation & troubleshooting guides.

## Specifications

Specifications

|                               |        | GR-202                                         | GR-300                  | GR-200   | GR-120 |
|-------------------------------|--------|------------------------------------------------|-------------------------|----------|--------|
| Weighing capacity             |        | 42 g / 210 g                                   | 310 g                   | 210 g    | 120 g  |
| Minimum weighing value        |        | 0.01 mg / 0.1 mg                               | 0.1 mg                  |          |        |
| Percentage Min Div.           |        | 0.01%                                          |                         |          |        |
| 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) |          |        |
| Sensitivity Drift             |        | ±2ppm / °C (10°C~30°C / 50°F~86°F)             |                         |          |        |
| Display Refresh               |        | 5 times per second / 10 times per second       |                         |          |        |
| Pan Size                      |        | Ø85mm / 3.3inches                              |                         |          |        |
| Physical Dimensions           | mm     | 249 (W) × 330 (D) × 328 (H)                    |                         |          |        |
|                               | inches | 9.8 (W) × 12.99 (D) × 12.91 (H)                |                         |          |        |
| Breeze Break Dimensions       | mm     | 178 (W) × 160 (D) × 233 (H)                    |                         |          |        |
|                               | inches | 7.01 (W) × 6.5 (D) × 9.17 (H)                  |                         |          |        |
| Admissible Ambient Conditions |        | 5°C~40°C / 41°F~104°F RH less than 85%         |                         |          |        |
| Weight Approximately          |        | 6.0kg / 13.2lb                                 |                         |          |        |
| Power                         |        | Approx. 11VA (supplied to the AC adapter)      |                         |          |        |
| Standard Accessories          |        | Instruction manual, AC Adapter, Reference Card |                         |          |        |

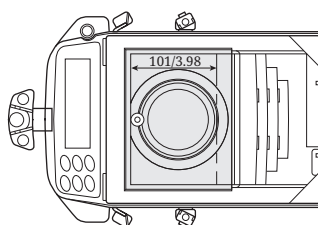
Specifications are subject to change for improvement without notice

## Accessories

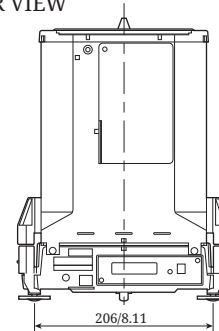
|            |                                           |
|------------|-------------------------------------------|
| AD-1653    | Density determination kit                 |
| AD-1682    | Rechargeable battery unit                 |
| AD-1683    | Static eliminator                         |
| AD-1684A   | Electrostatic fieldmeter                  |
| AD-1687    | Weighing environment logger               |
| AD-1688    | Weighing data logger                      |
| AD-1689    | Tweezers for calibration weight           |
| AD-8127    | Compact printer                           |
| AD-8526    | Serial/Ethernet converter with WinCT-Plus |
| AD-8527    | Quick USB adapter                         |
| AD-8920A   | Remote display                            |
| AD-8922A   | Remote controller                         |
| AX-USB-25P | Serial/USB converter and cable set        |

## Dimensions (mm/inches)

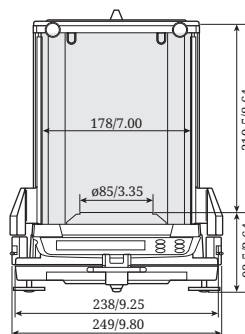
TOP VIEW



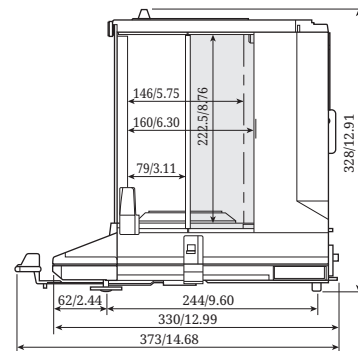
REAR VIEW



FRONT VIEW



SIDE VIEW



## AD-1653 Density Determination Kit



## Discover Precision

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