

Compact Balances

A&D Equa

EK Series



0.1 / 1 g models



0.01 g models



*Affordable Weighing Made
Simple & Dependable*

Start Smart with A&D Equa—Compact, Reliable, Affordable

A&D Equa brings dependable weighing performance within reach. Designed for portability and space-saving convenience, it's ideal for classrooms, shared workspaces, and field applications. With quick stabilization, an easy-to-read display, and flexible power options, this balance keeps your workflow smooth wherever you need it.

Fast stabilization in just 0.8 seconds

Get results quickly and keep your workflow moving. A&D Equa stabilizes in about 0.8 seconds^{*1}, enabling efficient weighing without unnecessary delays.

^{*1} Typical for 100 g and 1,000 g on 0.01 g and 0.1/1 g models respectively, at the fastest response setting.

Adjustable response settings

Choose from six combinations of weighing speed and stability to suit your environment. Set it for maximum speed in stable conditions or prioritize stability when vibration or drafts are present.

Stainless steel weighing pan (SUS 304)

Durable and resistant to chemicals, scratches, and wear. Easy to clean for a hygienic workspace.

LED spirit level

Illuminates when powered on to remind users to confirm proper leveling before use.

Reverse backlit LCD with large characters

High-contrast black-and-white display and 18 mm character height ensure clear visibility even in dim light.



Flexible power options for any location

Operate with an AC adapter, USB^{*2}, or four AA batteries—choose the power source that fits your application. USB can draw power from an outlet or another device, and battery operation provides up to 20 hours of continuous use^{*3}.

^{*2} For power supply only. For data communication, a USB + RS-232C interface option (EKW-02) is available.

^{*3} Based on four alkaline AA batteries with backlight at lowest brightness.

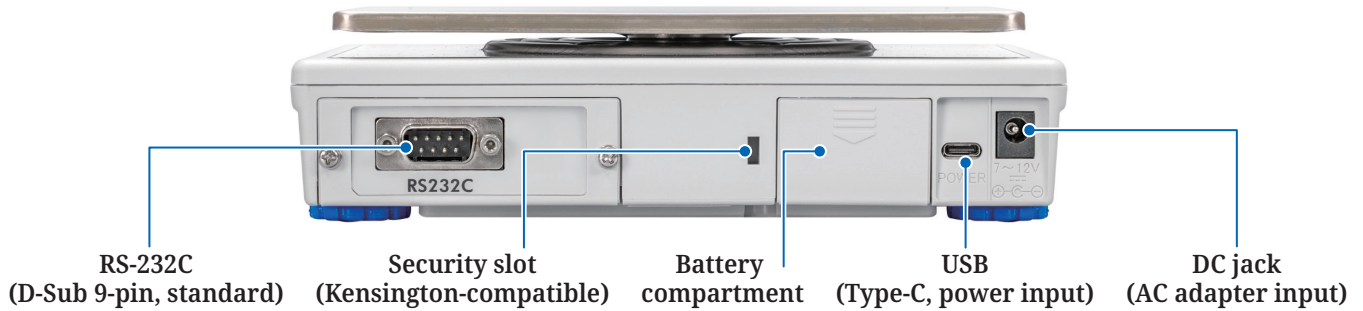
Operation with a mobile battery

Connect the USB interface to an off-the-shelf mobile battery for extended use in the field. A 10,000 mAh battery provides approx. 50 hours of operation^{*4}.

^{*4} When no communication with another device is made; operation with all mobile batteries is not guaranteed.

Auto power ON/OFF

The display turns on automatically when power is supplied and off after a set idle time (5–60 min), saving time and energy.



Multiple ways to connect and share data

A&D Equa offers versatile communication methods to suit various applications—from quick data transfer to system integration. Standard features include RS-232C for reliable wired connectivity and our patented sonic communication for smartphones and tablets, giving you flexibility without extra hardware.

Sonic communication (patented)

Send weighing data to a smartphone or tablet*⁵ using sound-wave signals (16–17 kHz). No cables, no radio restrictions—just simple, secure transfer. Effective range is approx. 15 cm, and the spirit level illuminates during communication for easy confirmation.

*⁵ Requires the A&D WeIV app (available on App Store/Google Play).



Optional interfaces for extended connectivity

Take your workflow further with optional interfaces designed for different requirements. USB + RS-232C (EKW-02) enables direct PC communication for seamless data handling, comparator relay output/contact input (EKW-04) outputs checkweighing results and accepts external commands for automated processes, and Bluetooth® + RS-232C (EKW-27) delivers wireless communication with PCs and mobile devices for added convenience.

Note: Only one of EKW-02, EKW-04, EKW-27, or the standard (RS-232C) interface can be installed.

Other features to enhance various weighing applications

- ✓ **Display hold** – Keeps the value visible for easy reading when conditions are unstable
- ✓ **Impact shock detection (ISD)** – Warns of shocks that could affect accuracy, helping protect the sensor (patented)
- ✓ **Counting mode with ACAI*⁶** – Automatically improves piece-counting accuracy as samples are added
- ✓ **Percent mode** – Displays weight as a percentage for quick comparison to a reference value
- ✓ **Comparator function** – Shows HI, OK, or LO for fast checkweighing and reduced errors
- ✓ **Auto-tare and negative comparison** – Enables “takeaway” checkweighing, letting you repeatedly remove target amounts without pressing tare
- ✓ **GLP/GMP compliant output** – Provides documentation for regulated environments and quality control
- ✓ **ZPL output** – Print in preset formats, including QR code, using Zebra printers
- ✓ **Multiple units of measure** – Switch easily between grams, ounces, pounds, carats, and more; extra units available on request
- ✓ **Password lock and key restriction** – Prevent unauthorized changes and ensure secure operation
- ✓ **Underhook option (EKW-07i)** – Allows suspended weighing and density measurement for larger capacity (4 kg or greater) models

*⁶ Automatic Counting Accuracy Improvement

Specifications

Models		EK-122	EK-222	EK-322	EK-422	EK-622	EK-1201	EK-2201	EK-3201	EK-4201	EK-6201	EK-6200	EK-12000
Capacity		122 g	220 g	320 g	420 g	620 g	1220 g	2200 g	3200 g	4200 g	6200 g	6200 g	12200 g
Readability		0.01 g					0.1 g					1 g	
Repeatability (standard deviation)* ⁱ		0.01 g					0.1 g					1 g	
Linearity		±0.01 g		±0.02 g			±0.1 g		±0.2 g			±1 g	
Stabilization time* ⁱⁱ		Approx. 0.8 seconds											
Sensitivity drift		±20 ppm/°C (10 to 30 °C/50 to 86 °F)											
Operating environment		-10 to 40 °C (14 to 104 °F), 85% RH or less (no condensation)											
Display		Reverse backlit LCD (main characters: 7 segments, 18 mm height)											
Display refresh rate		Approx. 10 times/second											
Units of measure* ⁱⁱⁱ		g (gram), oz (ounce), lb (pound), ozt (troy ounce), ct (metric carat), mom (momme), dwt (pennyweight), gr (grain), pcs (counting mode), and % (percent mode)											
Counting mode	Minimum unit mass	0.01 g					0.1 g					1 g	
	Number of samples	5, 10, 25, 50 or 100 pieces											
Percent mode	Minimum 100% reference mass	1 g					10 g					100 g	
	% readability	0.1%											
Comparator	Upper/lower limit memory	20 sets											
	Buzzer volume	Normal: 38 dB High: 50 dB											
Standard communication interface		RS-232C (D-Sub 9-pin)											
Weighing pan size		Ø116 mm					170 × 133 mm						
External dimensions		190 (W) × 205 (D)* ^{iv} × 55 (H) mm					190 (W) × 205 (D)* ^{iv} × 54 (H) mm						
Net weight		Approx. 1.1 kg					Approx. 1.5 kg						
Power supply		AC adapter (provided as standard), USB (Type-C), or 4 × AA batteries											
Power consumption* ^v		9 V, 90 mA (0.81 W)											

- *i Repeatability can worsen depending on the environmental conditions and operator skills.
*ii Typical for 100 g and 1,000 g on 0.01 g models and 0.1/1 g models respectively, when the response characteristic setting is 0 (at its fastest).
*iii One additional unit from either tael (Singapore, HK jewelry or Taiwan), tola or Newton can be added upon request.
*iv RS-232C connector included.
*v Under the conditions: Backlight LED brightness = 3; Mobile battery mode = Off.

Options

- EKW-02 USB (Type-C) + RS-232C (D-Sub 9-pin) interface
- EKW-07i Underhook (for EK-4201/6201/6200/12000)
- EKW-04 Comparator relay output/contact input
- EJ-12 Carrying case
- EKW-27 Bluetooth® + RS-232C (D-Sub 9-pin) interface

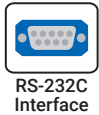
Note: Only one of EKW-02, EKW-04, EKW-27, or the standard (RS-232C) interface can be installed.

Accessories

- AD-1683A Static eliminator
- AD-8541-PC Bluetooth® dongle for PC
- AD-1684A Electrostatic fieldmeter
- AD-8552EIP RS-232C to EtherNet/IP converter
- AD-1687 Weighing environment logger
- AD-8920A Remote display
- AD-1688 Weighing data logger
- AD-8922A Remote controller
- AD-8129TH Compact thermal printer
- AX-TB301 USB power adapter (cable not included)
- AD-8526 RS-232C to Ethernet (TCP/IP) converter
- AX-KO7215-150 USB Type-A to Type-C cable (1.5 m)
- AD-8527 Quick USB adapter



Reverse Backlit LCD



RS-232C Interface



User Access Control



GLP Compliant



Impact Shock Detection



Counting with ACAI



Percentage Function



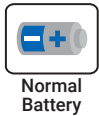
Comparator Function



Auto Power ON



Auto Power OFF



Normal Battery

Optional



Bi-directional USB



Bluetooth® Interface



Underhook (for EK-4201/6201/6200/12000)



Discover Precision

- A&D Company, Ltd. (JAPAN)

URL: aandd.jp

A&D Engineering, Inc. (USA)

URL: andonline.com

A&D Australasia Pty Ltd. (Australia)

URL: andastralasia.com.au

A&D Instruments Ltd. (United Kingdom)

URL: andprecision.com

A&D Korea Ltd. (South Korea)

URL: andk.co.kr
- A&D Rus Co., Ltd. (Russia)

URL: and-rus.ru

A&D Instruments India (P) Ltd. (India)

URL: aanddindia.in

A&D Sciencetech Taiwan Ltd. (Taiwan)

URL: aandd.com.tw

A&D Instruments Thailand Ltd. (Thailand)

URL: thai.andprecision.com

A&D Technology Trading (Shanghai) Co., Ltd. (China)

URL: aanddtech.cn