

Compact Balances

# A&D Equa

## EK Series



0.1 / 1 g models



0.01 g models



*Affordable Weighing Made  
Simple & Dependable*

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

Discover Precision

[www.aandd.jp](http://www.aandd.jp)

# 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\*<sup>1</sup>, enabling efficient weighing without unnecessary delays.

\*<sup>1</sup> 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\*<sup>2</sup>, 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\*<sup>3</sup>.

\*<sup>2</sup> For power supply only. For data communication, a USB + RS-232C interface option (EKW-02) is available.

\*<sup>3</sup> Based on four alkaline AA batteries with backlight at lowest brightness.

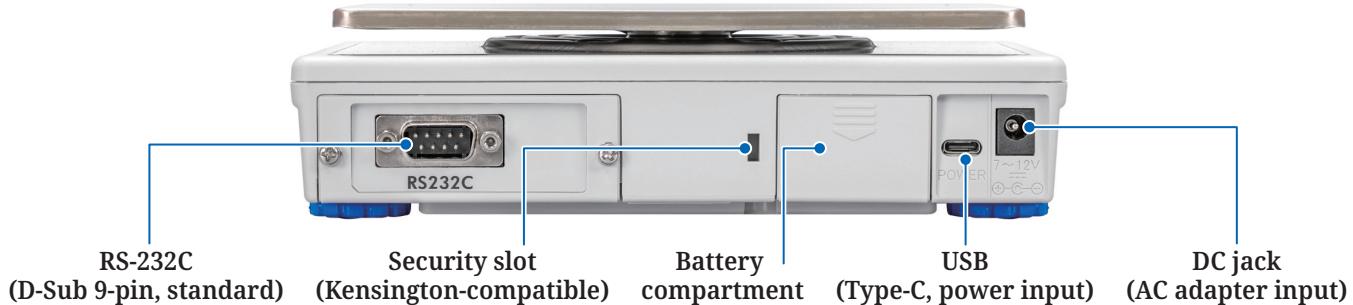
## Operation with a mobile battery

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\*<sup>4</sup>.

\*<sup>4</sup> 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\*<sup>5</sup> 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.

\*<sup>5</sup> 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<sup>\*6</sup>** – 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

\*<sup>6</sup> 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			0116 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)



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## Discover Precision

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