



*Compact Balances*

# *EK-i*

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# *EW-i*

*Series*



*EK-i*



*EW-i*



**AND** ...Clearly a Better Value  
A&D Company, Limited  
<http://www.aandd.jp>

# ***Choose the best for your weighing applications from a wider selection. High resolution up to 1/60,000!***

***(EK-610i, EK-6100i)***

*A wider selection of capacities & resolutions, and remote-zeroing has been included in a low-profile rugged housing. For years the EK/EW series balances have been top selling products. Now the new EK-i Compact Balances have been designed to continue this tradition with enhanced capacities and resolutions, and EW-i series comes with attractive triple ranges of weighing. All feature RS-232C as standard and are designed to meet weights and measures regulations of various countries (e.g. NTEP, EC).*

- Wide selection of 16 different models 30g ~ 12kg
- Large LCD display (16mm height) with backlight – easy to read even at a wide viewing angle or dark environment
- Control zero, mode selection and data output with standard RS-232C
- Triple range weighing for EW-i series
- 9 built-in weighing units plus counting & percentage with user priority start-up
- Counting function with Automatic Counting Accuracy Improvement
- Standard comparator function – HI/OK/LO annunciator
- Full Digital Calibration with optional user definable mass setting
- Conformity to GLP with I.D. and serial number outputs
- Auto Power OFF
- Portable-compact size, lightweight, rugged body
- Sealed key panel protection against dust and spills
- Low profile and small footprint for any space requirement
- Overload protection
- Stainless steel weighing pan
- Easy to install rechargeable Ni-MH battery (Optional)
- Optional underhook weighing for EK-4100i/6100i/6000i/12Ki, EW-12Ki
- Leveling feet and level bubble for accurate weighing
- Security ring to prevent theft





# EK-i



## WEIGHING RANGE

(EW-i series only)  
Triple range indication

## ACAI

Automatic Counting  
Accuracy Improvement

## HI/OK/LO

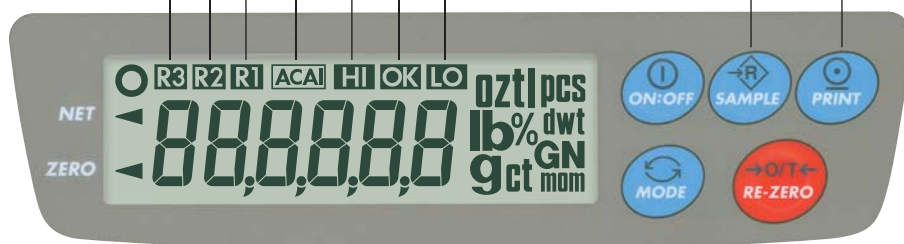
Comparator Annunciator

## SAMPLE

Register a sample count or  
100% in percentage

## PRINT

Transmit data to printer  
or computer



### Multi weighing units

|     |               |     |           |
|-----|---------------|-----|-----------|
| oz  | — Ounce (av)  | g   | — Gram    |
| ozt | — Troy ounce  | ct  | — Carat   |
| tl  | — Tael        | mom | — Momme   |
| lb  | — Pound (av)  | pcs | — Pieces  |
| GN  | — Grain unit  | %   | — Percent |
| dwt | — Pennyweight |     |           |

## GLP

Balance I.D. number allows  
calibration output verification

|                 |           |
|-----------------|-----------|
|                 | A & D     |
| MODEL           | EK-300i   |
| S/N             | 1234567   |
| ID              | ABCDEF    |
| DATE            | 02/05/17  |
| 03:15:40 PM     |           |
| CAL. TEST(EXT.) |           |
| ACTUAL          |           |
|                 | 0.00 g    |
|                 | +300.01 g |
| TARGET          |           |
|                 | +300.00 g |
| SIGNATURE       |           |

## Options & Accessories

### Dot Matrix Compact Printer

\*AD-8121B



### Optional Ni-MH Pack

\*EKW-09i

For complete portability and use  
in areas with power problems



### Carrying Case

\*EKW-12i



## EK-i/EW-i Series Specifications

|                                   | EK-120i                                                        | EK-200i                     | EK-300i          | EK-410i          | EK-610i          | EK-600i                     | EK-1200i        | EK-2000i        | EK-3000i        | EK-4100i        | EK-6100i        |
|-----------------------------------|----------------------------------------------------------------|-----------------------------|------------------|------------------|------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Gram(g)                           | 120 x 0.01                                                     | 200 x 0.01                  | 300 x 0.01       | 400 x 0.01       | 600 x 0.01       | 600 x 0.1                   | 1200 x 0.1      | 2000 x 0.1      | 3000 x 0.1      | 4000 x 0.1      | 6000 x 0.1      |
| Decimal Ounce(av)(oz)             | 4.2330 x 0.0005                                                | 7.0550 x 0.0005             | 10.5820 x 0.0005 | 14.110 x 0.001   | 21.164 x 0.001   | 21.165 x 0.005              | 42.330 x 0.005  | 70.550 x 0.005  | 105.820 x 0.005 | 141.10 x 0.01   | 211.64 x 0.01   |
| Decimal Pound(av)(lb)             | —                                                              | —                           | —                | 0.8818 x 0.0001  | 1.3228 x 0.0001  | 1.3230 x 0.0005             | 2.6455 x 0.0005 | 4.4090 x 0.0005 | 6.6140 x 0.0005 | 8.818 x 0.001   | 13.228 x 0.001  |
| Troy Ounce(ozt)                   | 3.8580 x 0.0005                                                | 6.4300 x 0.0005             | 9.6450 x 0.0005  | 12.860 x 0.001   | 19.290 x 0.001   | 19.290 x 0.005              | 38.580 x 0.005  | 64.300 x 0.005  | 96.450 x 0.005  | 128.60 x 0.01   | 192.90 x 0.01   |
| Pennyweight(dwt)                  | 77.16 x 0.01                                                   | 128.60 x 0.01               | 192.90 x 0.01    | 257.21 x 0.01    | 385.81 x 0.01    | 385.8 x 0.1                 | 771.6 x 0.1     | 1286.0 x 0.1    | 1929.0 x 0.1    | 2572.1 x 0.1    | 3858.1 x 0.1    |
| Carat(ct)                         | 600.00 x 0.05                                                  | 1000.00 x 0.05              | 1500.00 x 0.05   | 2000.0 x 0.1     | 3000.0 x 0.1     | 3000.0 x 0.5                | 6000.0 x 0.5    | 10000.0 x 0.5   | 15000.0 x 0.5   | 20000 x 1       | 30000 x 1       |
| Momme(mom)                        | 32.000 x 0.005                                                 | 53.335 x 0.005              | 80.000 x 0.005   | 106.665 x 0.005  | 160.000 x 0.005  | 160.00 x 0.05               | 320.00 x 0.05   | 533.35 x 0.05   | 800.00 x 0.05   | 1066.65 x 0.05  | 1600.00 x 0.05  |
| Grain Unit(GN)                    | 1851.8 x 0.2                                                   | 3086.4 x 0.2                | 4629.8 x 0.2     | 6173.0 x 0.2     | 9259.4 x 0.2     | 9260 x 2                    | 18518 x 2       | 30864 x 2       | 46298 x 2       | 61730 x 2       | 92594 x 2       |
| Tael(H.K General)(tl)             | 3.1745 x 0.0005                                                | 5.2910 x 0.0005             | 7.9365 x 0.0005  | 10.5820 x 0.0005 | 15.8735 x 0.0005 | 15.875 x 0.005              | 31.745 x 0.005  | 52.910 x 0.005  | 79.365 x 0.005  | 105.820 x 0.005 | 158.735 x 0.005 |
| Counting Mode                     | Max. count                                                     | 12,000pcs                   | 20,000pcs        | 30,000pcs        | 40,000pcs        | 60,000pcs                   | 6,000pcs        | 12,000pcs       | 20,000pcs       | 30,000pcs       | 40,000pcs       |
|                                   | Min. unit weight                                               | 0.01g                       |                  |                  |                  |                             | 0.1g            |                 |                 |                 |                 |
| Percent Mode                      | No. of samples                                                 | 5, 10, 25, 50 or 100 pieces |                  |                  |                  |                             |                 |                 |                 |                 |                 |
|                                   | Min. div.                                                      | 0.1%                        |                  |                  |                  |                             |                 |                 |                 |                 |                 |
|                                   | Min.100% weight                                                | 1g                          |                  |                  |                  | 10g                         |                 |                 |                 |                 |                 |
| Linearity                         | ±0.01g                                                         |                             | ±0.02g           |                  |                  | ±0.1g                       |                 |                 | ±0.2g           |                 |                 |
| Repeatability/Std.Dev.            | 0.01g                                                          |                             |                  |                  |                  | 0.1g                        |                 |                 |                 |                 |                 |
| Sensitivity Drift                 | ±20ppm/°C(10°C~30°C/50°F~86°F)                                 |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |
| Display Type                      | 7 segment LCD with backlight (character height 16mm)           |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |
| Display Refresh                   | 10 times/second                                                |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |
| Pan size (W) x (D)                | Ø110mm/4.3inches                                               |                             |                  |                  |                  | 133 x 170mm/5.2 x 6.7inches |                 |                 |                 |                 |                 |
| Physical Dimensions(mm)           | 190(W) x 218(D) x 55(H)                                        |                             |                  |                  |                  | 190(W) x 218(D) x 53(H)     |                 |                 |                 |                 |                 |
| Physical Dimensions(inches)       | 7.5(W) x 8.6(D) x 2.2(H)                                       |                             |                  |                  |                  | 7.5(W) x 8.6(D) x 2.1(H)    |                 |                 |                 |                 |                 |
| Admissible Ambient Temperature    | -10°C~-40°C / 14°F~-104°F, less than 85% R.H. (non-condensing) |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |
| Weight(approx.)                   | 1.1kg                                                          |                             |                  |                  |                  | 1.5kg                       |                 |                 |                 |                 |                 |
| Calibration Mass(default setting) | 120g                                                           | 200g                        | 300g             | 400g             | 600g             | 600g                        | 1200g           | 2000g           | 3000g           | 4000g           | 6000g           |
| Power                             | AC adapter or Ni-MH battery pack (option)                      |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |
| Standard Accessories              | Manual, AC adapter                                             |                             |                  |                  |                  |                             |                 |                 |                 |                 |                 |

|                                   | EK-6000i                                                       | EK-12Ki        | EW-150i                        |                             |               | EW-1500i        |                             |               | EW-12Ki       |              |              |
|-----------------------------------|----------------------------------------------------------------|----------------|--------------------------------|-----------------------------|---------------|-----------------|-----------------------------|---------------|---------------|--------------|--------------|
| Gram(g)                           | 6000 x 1                                                       | 12000 x 1      | 30 x 0.01                      | 60 x 0.02                   | 150 x 0.05    | 300 x 0.1       | 600 x 0.2                   | 1500 x 0.5    | 3000 x 1      | 6000 x 2     | 12000 x 5    |
| Decimal Ounce(av)(oz)             | 211.65 x 0.05                                                  | 423.30 x 0.05  | 1.0580 x 0.0005                | 2.116 x 0.001               | 5.292 x 0.002 | 10.580 x 0.005  | 21.16 x 0.01                | 52.92 x 0.02  | 105.80 x 0.05 | 211.6 x 0.1  | 423.2 x 0.2  |
| Decimal Pound(av)(lb)             | 13.230 x 0.005                                                 | 26.455 x 0.005 | —                              | —                           | —             | 0.6615 x 0.0005 | 1.323 x 0.001               | 3.306 x 0.002 | 6.615 x 0.005 | 13.23 x 0.01 | 26.46 x 0.02 |
| Troy Ounce(ozt)                   | 192.90 x 0.05                                                  | 385.80 x 0.05  | 0.9645 x 0.0005                | 1.929 x 0.001               | 4.822 x 0.002 | 9.645 x 0.005   | 19.29 x 0.01                | 48.22 x 0.02  | 96.45 x 0.05  | 192.9 x 0.1  | 385.8 x 0.2  |
| Pennyweight(dwt)                  | 3858 x 1                                                       | 7716 x 1       | 19.29 x 0.01                   | 38.58 x 0.02                | 96.45 x 0.05  | 192.9 x 0.1     | 385.8 x 0.2                 | 964.5 x 0.5   | 1929 x 1      | 3858 x 2     | 7715 x 5     |
| Carat(ct)                         | —                                                              | —              | 150.00 x 0.05                  | 300.0 x 0.1                 | 750.0 x 0.2   | 1500.0 x 0.5    | 3000 x 1                    | 7500 x 2      | —             | —            | —            |
| Momme(mom)                        | 1600.0 x 0.5                                                   | 3200.0 x 0.5   | 8.000 x 0.005                  | 16.00 x 0.01                | 40.00 x 0.02  | 80.00 x 0.05    | 160.0 x 0.1                 | 400 x 0.2     | 800 x 0.5     | 1600 x 1     | 3200 x 2     |
| Grain Unit(GN)                    | —                                                              | —              | 463.0 x 0.2                    | 926.0 x 0.5                 | 2315 x 1      | 4630 x 2        | 9260 x 5                    | 23150 x 10    | —             | —            | —            |
| Tael(H.K General)(tl)             | 158.75 x 0.05                                                  | 317.45 x 0.05  | 0.7935 x 0.0005                | 1.587 x 0.001               | 3.968 x 0.002 | 7.935 x 0.005   | 15.87 x 0.01                | 39.68 x 0.02  | 79.35 x 0.05  | 158.7 x 0.1  | 317.4 x 0.2  |
| Counting Mode                     | Max. count                                                     | 6,000pcs       | 12,000pcs                      | 15,000pcs                   |               |                 | 15,000pcs                   |               |               | 12,000pcs    |              |
|                                   | Min. unit weight                                               | 1g             |                                | 0.01g                       |               |                 | 0.1g                        |               |               | 1g           |              |
|                                   | No. of samples                                                 |                |                                | 5, 10, 25, 50 or 100 pieces |               |                 |                             |               |               |              |              |
| Percent Mode                      | Min. div.                                                      | 0.1%           |                                |                             |               |                 |                             |               |               |              |              |
|                                   | Min. 100% weight                                               | 100g           |                                | 1g                          |               |                 | 10g                         |               |               | 100g         |              |
| Linearity                         | ±1g                                                            |                | ±0.01g                         | ±0.02g                      | ±0.05g        | ±0.1g           | ±0.2g                       | ±0.5g         | ±1g           | ±2g          | ±5g          |
| Repeatability/Std.Dev.            | 1g                                                             |                | 0.01g                          | 0.02g                       | 0.05g         | 0.1g            | 0.2g                        | 0.5g          | 1g            | 2g           | 5g           |
| Sensitivity Drift                 |                                                                |                | ±20ppm/°C(10°C~30°C/50°F~86°F) |                             |               |                 |                             |               |               |              |              |
| Display Type                      | 7 segment LCD with backlight (character height 16mm)           |                |                                |                             |               |                 |                             |               |               |              |              |
| Display Refresh                   |                                                                |                | 10 times/second                |                             |               |                 |                             |               |               |              |              |
| Pan size (W) x (D)                | 133 x 170mm/5.2 x 6.7inches                                    |                |                                | Ø110mm/4.3inches            |               |                 | 133 x 170mm/5.2 x 6.7inches |               |               |              |              |
| Physical Dimensions(mm)           | 190(W) x 218(D) x 53(H)                                        |                |                                | 190(W) x 218(D) x 55(H)     |               |                 | 190(W) x 218(D) x 53(H)     |               |               |              |              |
| Physical Dimensions(inches)       | 7.5(W) x 8.6(D) x 2.1(H)                                       |                |                                | 7.5(W) x 8.6(D) x 2.2(H)    |               |                 | 7.5(W) x 8.6(D) x 2.1(H)    |               |               |              |              |
| Admissible Ambient Temperature    | -10°C~-40°C / 14°F~-104°F, less than 85% R.H. (non-condensing) |                |                                |                             |               |                 |                             |               |               |              |              |
| Weight(approx.)                   | 1.5kg                                                          |                | 1.1kg                          |                             |               | 1.5kg           |                             |               | 1.5kg         |              |              |
| Calibration Mass(default setting) | 6000g                                                          | 12kg           | 150g                           |                             |               | 1500g           |                             |               | 12kg          |              |              |
| Power                             | AC adapter or Ni-MH battery pack (option)                      |                |                                |                             |               |                 |                             |               |               |              |              |
| Standard Accessories              |                                                                |                | Manual, AC adapter             |                             |               |                 |                             |               |               |              |              |

Specifications are subject to change for improvement without notice.

## Option

- EKW-04i\*** Comparator/Relay Output  
**EKW-07i** Underhook (for EK-4100i/6100i/6000i/12Ki, EW-12Ki only)  
**EKW-09i\*** Rechargeable Battery Pack (Ni-MH)  
**EKW-12i** Carrying Case

★ EKW-04i and EKW-09i cannot be used simultaneously. Select one of them.

## Accessories

- AD-8121B** Dot Matrix Compact Printer  
**AD-8118C** Universal Printer  
**AD-8524B** Keyboard Adapter  
**AD-8920A** External Display  
**AX-3005824-5S** Protective Cover (5pcs.)



AD-8920A

**A&D** ...Clearly a Better Value

**A&D Company, Limited**

3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN  
 Telephone: [81](3) 5391-6132 Fax: [81](3) 5391-6148  
 http://www.aandd.jp

**A&D ENGINEERING, INC.**

1756 Automation Parkway, San Jose, CA 95131 U.S.A.  
 Telephone: [1](408) 263-5333 Fax: [1](408) 263-0119

**A&D MERCURY PTY. LTD.**

32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA  
 Telephone: [61](8) 8301-8100 Fax: [61](8) 8352-7409

**A&D INSTRUMENTS LTD.**

Unit 24/26 Blacklands Way Abingdon Business Park,  
 Abingdon, Oxon OX14 1DY UNITED KINGDOM  
 Telephone: [44](1235) 550420 Fax: [44](1235) 550485

**<German Sales Office>**

Große Straße 13 b 22926 Ahrensburg GERMANY  
 Telephone: [49](0) 4102 459230 Fax: [49](0) 4102 459231

**A&D KOREA Limited**

Manhattan Bldg. 8F, 36-2 Yoido-dong, Youngdeungpo-gu, Seoul, KOREA  
 Telephone: [82](2) 780-4101 Fax: [82](2) 782-4280

**A&D RUS CO., LTD.**

Vereyskaya str. 112 Kuntsevo Block, 121357,  
 Moscow, RUSSIA  
 Telephone: [7] (495) 937-33-44 Fax: [7] (495) 937-55-66

**A&D Instruments India Private Limited**

509 Udyog Vihar Phase V,  
 Gurgaon-122 016, Haryana, INDIA  
 Telephone: [91](124) 471-5555 Fax: [91](124) 471-5599