

ANALYTICAL BALANCES

Series ALS-A/ALJ-A: Range of analytical balances, with large weighing ranges, intuitive graphics display, also with EC type approval [M]

Features:

- Rapid and efficient operation thanks to the graphic display. Simple plain text user guidance in the display, following languages available: DE, EN, FR, IT, ES, PT
- ALJ-A03: Ioniser to neutralise electrostatic charge for fixed installation in the analytical balance.
- Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price
- Short stabilisation time: Steady weight values within approx. 4 sec under laboratory conditions (on all models with readout [d] = 0,1 mg), 10 | 6 s (on all models with readout [d] = 0,01 mg)
- Weighing with tolerance range (checkweighing): Input of an upper/lower limit value.
- Internal memory for complete recipes with name and target value of therecipe ingredients.
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Protective working cover included with delivery



Technical data:

| | ALS 160-4A | ALS 250-4A | ALJ 160-4A | ALJ 160-4AM | ALJ 250-4A | ALJ 250-4AM |
|----------------------------|------------|------------|------------|-------------|------------|-------------|
| Measuring system | | | | | | |
| Weighing range [Max] [g] | 160 | 250 | 160 | 160 | 250 | 250 |
| Readout [mg] | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 |
| Reproducibility [mg] | 0,1 | 0,1 | 0,1 | 0,2 | 0,1 | 0,2 |
| Linearity [mg] | ±0,3 | ±0,3 | ±0,3 | ±0,3 | ±0,3 | ±0,3 |
| Calibration / Adjusting | externally | externally | internally | internally | internally | internally |
| DAkkS Certificate (Option) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Verification value [mg] | - | - | - | 1 | - | 1 |
| Set density determination | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Data Interface | RS 232 | RS 232 | RS 232 | RS 232 | RS 232 | RS 232 |
| Pan, stainless steel [mm] | Ø 80 | Ø 80 | Ø 80 | Ø 80 | Ø 80 | Ø 80 |
| Electrial data | | | | | | |
| Input voltage [V] AC | 110 - 230 | 110 - 230 | 110 - 230 | 110 - 230 | 110 - 230 | 110 - 230 |
| Dimensions | | | | | | |
| Width [mm] | 210 | 210 | 210 | 210 | 210 | 210 |
| Height [mm] | 330 | 330 | 330 | 330 | 330 | 330 |
| Depth [mm] | 340 | 340 | 340 | 340 | 340 | 340 |
| Weight [kg] | 7 | 7 | 7 | 7 | 7 | 7 |

Other versions on request!

Series ABT: The premium model with single-cell weighing system

Features:

- Automatic internal adjustment in the case of a change in temperature > 0,5 °C and time-controlled every 4 hours
- Simple recipe weighing and documenting with a combined tare/print function.
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance is steady

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within approx. 5 sec under laboratory conditions
- Shock proof construction
- High corner load performance



Technical data:

| | ABT 120-4NM | ABT 220-4NM | ABT 320-4NM | ABT 100-5NM |
|---------------------------|-------------|-------------|-------------|-------------|
| Measuring system | | | | |
| Weighing range [Max] [g] | 120 | 220 | 320 | 101 |
| Readout [mg] | 0,1 | 0,1 | 0,1 | 0,01 |
| Reproducibility [mg] | 0,1 | 0,1 | 0,1 | 0,05 |
| Linearity [mg] | ±0,2 | ±0,2 | ±0,3 | ±0,15 |
| Calibration / Adjusting | internally | internally | internally | internally |
| DAkkS Certificate | ✓ | ✓ | ✓ | ✓ |
| Verification value [mg] | 1 | 1 | 1 | 1 |
| Set density determination | ✓ | ✓ | ✓ | ✓ |
| Data Interface | RS 232 | RS 232 | RS 232 | RS 232 |
| Pan, stainless steel [mm] | Ø 80 | Ø 80 | Ø 80 | Ø 80 |
| Electrical data | | | | |
| Input voltage [V] AC | 110 - 230 | 110 - 230 | 110 - 230 | 110 - 230 |
| Dimensions | | | | |
| Width [mm] | 217 | 217 | 217 | 217 |
| Height [mm] | 338 | 338 | 338 | 338 |
| Depth [mm] | 356 | 356 | 356 | 356 |
| Weight [kg] | approx. 7 | approx. 7 | approx. 7 | approx. 7 |

Other versions on request!

Series ADB/ADJ: The price leader in analytical balances - now also with internal adjustment

Features:

- ADJ: Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- ADB: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price
- Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Simple and convenient 6-key operation



Technical data:

| | ADB 100-4 | ADB 200-4 | ADB 600-C3 | ADJ 100-4 | ADJ 200-4 | ADJ 600-C3 |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Measuring system | | | | | | |
| Weighing range [Max] [g] | 120 | 210 | 120 | 120 | 210 | 120 |
| Readout [mg] | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 |
| Reproducibility [mg] | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| Linearity [mg] | $\pm 0,4$ | $\pm 0,4$ | $\pm 0,4$ | $\pm 0,4$ | $\pm 0,4$ | $\pm 0,4$ |
| Calibration / Adjusting | externally | externally | externally | internally | internally | internally |
| DAkkS Certificate (Option) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Verification value [mg] | - | - | - | - | - | - |
| Data Interface | RS 232 | RS 232 | RS 232 | RS 232 | RS 232 | RS 232 |
| Pan, stainless steel [mm] | $\varnothing 90$ | $\varnothing 90$ | $\varnothing 90$ | $\varnothing 90$ | $\varnothing 90$ | $\varnothing 90$ |
| Electrical data | | | | | | |
| Input voltage [V] AC | 100 - 240 | 100 - 240 | 100 - 240 | 100 - 240 | 100 - 240 | 100 - 240 |
| Dimensions | | | | | | |
| Width [mm] | 230 | 230 | 230 | 230 | 230 | 230 |
| Height [mm] | 330 | 330 | 210 | 330 | 330 | 210 |
| Depth [mm] | 310 | 310 | 310 | 310 | 310 | 310 |
| Weight [kg] | 4,4 | 4,4 | 3,8 | 5 | 5 | 4,5 |

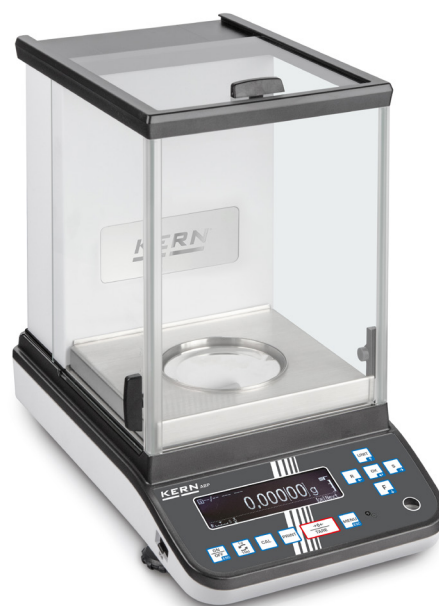
Series ABP: Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results

Features:

- Bright OLED display with wide viewing angle stability
- RS-232 and USB data interfaces
- GLP/ISO logging
- Internal automatic adjustment for temperature changes > 1 °C and time-controlled every 4 h
- U.S. FDA 21 Part 11: Supports data integrity according to U.S. FDA 21 Part 11
- Menu language DE, GB
- Automatic data output to PC/printer after each scale stop
- Large glass draft shield with 3 sliding doors
- Dust cover included in delivery

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within a few seconds under laboratory conditions
- Shock proof construction
- High corner load performance



Technical data:

| | ABP 100-5M | ABP 200-5M | ABP 100-4M | ABP 200-4M | ABP 300-4M | ABP 100-5DM | ABP 200-5DM |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Measuring system | | | | | | | |
| Weighing range [Max] [g] | 135 | 220 | 120 | 220 | 320 | 52 / 120 | 102 / 220 |
| Readout [mg] | 0,01 | 0,01 | 0,1 | 0,1 | 0,1 | 0,01 / 0,1 | 0,01 / 0,1 |
| Reproducibility [mg] | 0,05 | 0,015...0,05 | 0,1 | 0,1 | 0,2 | 0,02 / 0,1 | 0,05 / 0,1 |
| Linearity [mg] | ±0,2 | ±0,2 | ±0,2 | ±0,2 | ±0,3 | ±0,05 / 0,2 | ±0,1 / 0,2 |
| Calibration / Adjusting | internally | internally | internally | internally | internally | internally | internally |
| DAkkS Certificate (Option) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Verification value [mg] | 1 | 1 | 1 | 1 | 1 | 1 / 1 | 1 / 1 |
| Data Interface | RS 232 / USB | RS 232 / USB | RS 232 / USB | RS 232 / USB | RS 232 / USB | RS 232 / USB | RS 232 / USB |
| Pan, stainless steel [mm] | Ø 91 | Ø 91 | Ø 91 | Ø 91 | Ø 91 | Ø 91 | Ø 91 |
| Electrical data | | | | | | | |
| Input voltage [V] AC | 220 - 240 | 220 - 240 | 220 - 240 | 220 - 240 | 220 - 240 | 220 - 240 | 220 - 240 |
| Dimensions | | | | | | | |
| Width [mm] | 213 | 213 | 213 | 213 | 213 | 213 | 213 |
| Height [mm] | 344 | 344 | 344 | 344 | 344 | 344 | 344 |
| Depth [mm] | 407 | 407 | 407 | 407 | 407 | 407 | 407 |
| Weight [kg] | 8 | 8 | 8 | 8 | 8 | 8 | 8 |