

Аналитические весы ACS, ACJ, ALS, ALJ, AVR Технические характеристики

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Analytical balance ABS-N_ABJ-NM_ACS_ACJ

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]



- ① ABJ and ACJ: Automatic internal adjustment in the case of a temperature change $\geq 2^\circ\text{C}$ and time-controlled every 4 hours, guarantees high degree of accuracy and makes the balance independent of its location of use
- ② ABS-N and ACS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- ③ ACS: identical in construction to ABS, ACJ: identical in construction to ABJ, but with integrated RS-232 and USB data interface as standard
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance has obtained a stable weighing result
- Note: The KERN ABJ-NM series is no longer available with EC type approval. As an alternative model, we recommend the KERN ACJ series, which in addition to the EC type approval also has an RS-232 and USB interface as standard.

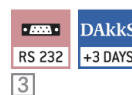
Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within approx. 3 sec under laboratory conditions
- Shock proof construction
- High corner load performance
- Protective working cover included with delivery
- Watch the product film

STANDARD



OPTION



FACTORY



only ACJ-NM

ALL MODELS

Model	Weighing capacity [Max] g	Readability [d] mg	Verific. value [e] mg	Minimum load [Min] g	Repeatability mg	Linearity mg	Option Verification	Option DAkkS Calibration Certificate
ABS 80-4N	82	0,1			0,2	0,3	—	☑
ABS 120-4N	120	0,1			0,2	0,3	—	☑
ABS 220-4N	220	0,1			0,2	0,3	—	☑
ABS 320-4N	320	0,1			0,2	0,3	—	☑

Model	Weighing capacity [Max] g	Read-ability [d] mg	Verific. value [e] mg	Minimum load [Min] g	Repeat-ability mg	Linea- rity mg	Option Verification	Option DAkkS Calibration Certificate
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Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ABJ 80-4NM	82	0,1			0,2	0,3	—	
ABJ 120-4NM	120	0,1			0,2	0,3	—	
ABJ 220-4NM	220	0,1			0,2	0,3	—	
ABJ 320-4NM	320	0,1			0,2	0,3	—	
ACS 80-4	82	0,1			0,2	0,3	—	
ACS 100-4	120	0,1			0,2	0,3	—	
ACS 200-4	220	0,1			0,2	0,3	—	
ACS 300-4	320	0,1			0,2	0,3	—	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ACJ 80-4M	82	0,1	1	0,01	0,2	0,3		
ACJ 100-4M	120	0,1	1	0,01	0,2	0,3		
ACJ 200-4M	220	0,1	1	0,01	0,2	0,3		
ACJ 300-4M	320	0,1	1	0,01	0,2	0,3		

Analytical balance ALS-A/ALJ-A

Analytical balance range with large weighing ranges, intuitive graphics display and extensive recipe database



- 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
- KERN ALJ-A03: Ioniser to neutralise electrostatic charge for fixed installation in the analytical balance. This it makes for convenient handling as you no longer need a separate device. Simply enable the ioniser fan at the push of a button. Suitable for all models in this range. see accessories
- 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. A visual and audible signal assists with portion division, dispensing or grading
- Dosage aid: High stability mode and other filter settings can be selected
- Internal memory for complete recipes with name and target value of therecipe ingredients. User guidance through display
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Protective working cover included with delivery

STANDARD



OPTION FACTORY



ALJ-A ALS-A

ALL MODELS

Model	Weighing range [Max]	Readout [d] mg	Verific. value [e] mg	Minimum load [Min] g	Linearity mg	Option Verification	Option DAkkS Calibration Certificate
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g

ALS 160-4A	160	0,1		0,3	—	✓
ALS 250-4A	250	0,1		0,3	—	✓

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ALJ 210-5A	210	0,01		0,1	—	✓
ALJ 200-5DA	82 220	0,01 0,1		0,1 0,2	—	✓
ALJ 160-4A	160	0,1		0,3	—	✓
ALJ 160-4AM	160	0,1	1	0,01	0,3	✓
ALJ 250-4A	250	0,1		0,3	—	✓
ALJ 250-4AM	250	0,1	1	0,01	0,3	✓
ALJ 310-4A	310	0,1		0,3	—	✓
ALJ 500-4A	510	0,1		0,4	—	✓

Analytical balance ALS-A/ALJ-A

Analytical balance range with large weighing ranges, intuitive graphics display and extensive recipe database



- 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
- KERN ALJ-A03: Ioniser to neutralise electrostatic charge for fixed installation in the analytical balance. This it makes for convenient handling as you no longer need a separate device. Simply enable the ioniser fan at the push of a button. Suitable for all models in this range. see accessories
- 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. A visual and audible signal assists with portion division, dispensing or grading
- Dosage aid: High stability mode and other filter settings can be selected
- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Protective working cover included with delivery

STANDARD



ALJ-A ALS-A

OPTION FACTORY



ALL MODELS

Model	Weighing range [Max] g	Readout [d] mg	Verific. value [e] mg	Minimum load [Min] g	Linea- rity mg	Option Verification	Option DAkkS Calibration Certificate
ALS 160-4A	160	0,1			0,3	—	✓
ALS 250-4A	250	0,1			0,3	—	✓
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.							
ALJ 210-5A	210	0,01			0,1	—	✓
ALJ 200-5DA	82 220	0,01 0,1			0,1 0,2	—	✓
ALJ 160-4A	160	0,1			0,3	—	✓
ALJ 160-4AM	160	0,1	1	0,01	0,3	✓	✓
ALJ 250-4A	250	0,1			0,3	—	✓
ALJ 250-4AM	250	0,1	1	0,01	0,3	✓	✓
ALJ 310-4A	310	0,1			0,3	—	✓
ALJ 500-4A	510	0,1			0,4	—	✓

Analytical balance ALS-A/ALJ-A-2020a

Analytical balance range with large weighing ranges - now also with EC type approval [M] or available as semi-micro analytical balance



- 1 KERN ALJ 200-5DA: High-precision semi-micro analytical balance
- 2 KERN ALJ-A03: Ioniser to neutralise electrostatic charge for fixed installation in the analytical balance. This it makes for convenient handling as you no longer need a separate device. Simply enable the ioniser fan at the push of a button. Suitable for all models in this range
- only ALJ-A/-AM: Automatic internal adjustment in the case of a change in temperature greater or equal 1,2 °C and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- only ALS-A: Adjusting program CAL for quick setting of the balance accuracy, using an external test weight
- Ergonomically optimised keypad for left and righthanded users
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Protective working cover included with delivery

STANDARD



OPTION

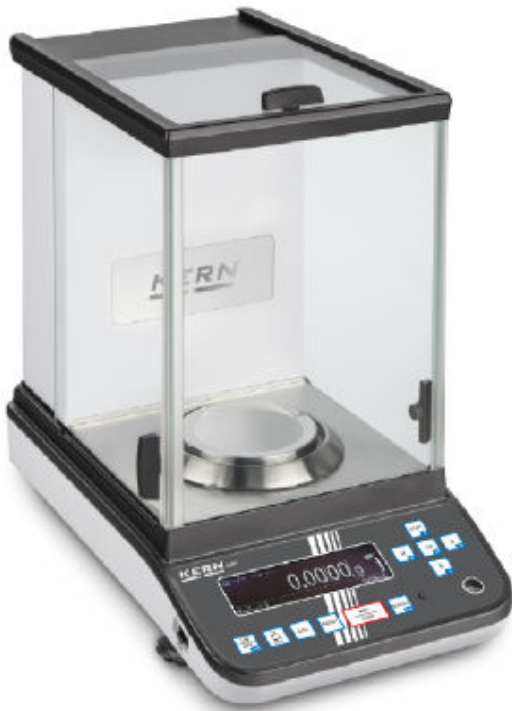
ALL MODELS

Model	Weighing range [Max] g	Readout [d] mg	Linea- rity mg	Option DAkkS Calibration Certificate
ALS 160-4A-2020a	160	0,1	0,3	
ALJ 200-5DA-2020a	82 220	0,01 0,1	0,1 0,2	
ALJ 160-4A-2020a	160	0,1	0,3	

Analytical balance ABP

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

PREMIUM



Models with [d] = 0,1 mg

- **1** Optional: Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ioniser fan at the push of a button. Suitable for all models, see accessories to the right
- **2** Bright OLED display with large viewing angle for the very best readout from a wide range of lines of sight
- **3** RS 232 and USB interfaces for the transfer of weighing data to PCs, tablets, printers as well as for the connection of external devices, such as barcode scanners (option), numeric keypad (option), etc.
- **4** GLP/ISO record keeping: professional, detailed GLP-Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP
- This new generation of analytical balances combines the highest level of precision with large weighing ranges. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly
- Navigation pad for super quick navigating through the menus
- Automatic internal adjustment in the case of a change in temperature $> 1\text{ }^{\circ}\text{C}$ and time-controlled every 4 hours, guarantees high degree of accuracy and makes the balance independent of its location of use
- The Minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message

- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail
- Simple recipeweighing and documenting with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- Individual user settings for up to 10 users can be saved: user name/user number (can be printed out or added to the record for each process), password, menu language, user profiles, accessing user settings via barcode, additional guest mode for users who are not logged in eg. balance adjustment, changing, settings or conditioning or modification of a recipe only by the authorized person & performing the formulation by the user
- U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Menu language DE, GB
- Automatic data output to the PC/printer each time the balance is steady
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
-  Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- Protective working cover included with 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 approx. 2 sec (Models with [d] = 0,1 mg), approx. 8 sec (Models with [d] = 0,01 mg) under laboratory conditions
- Shock proof construction
- High corner load performance

- Watch the product film for ABP

STANDARD



2×

OPTION FACTORY

ALL MODELS

Model	Weighing capacity [Max] g
ABP 100-5M	135
ABP 200-5M	220
ABP 100-4M	120
ABP 200-4M	220
ABP 300-4M	320
Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically	
ABP 100-5DM	52 120
ABP 200-5DM	102 220

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

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