

Analytical balances

Quick-Finder Analytical balances													
Read-out [d] mg	Weighing range [Max] g	Model	Price excl. of VAT ex works €	Page	For an explanation on the pictos, see the front flap								
0,01	101	ABT 100-5NM	1980,-	39	1	○	●					●	●
0,01 0,1	42 120	ABT 120-5DNM	2120,-	39	1	○	●					●	●
0,01 0,1	82 220	ALJ 200-5DA	1750,-	37	1		●					●	●
0,01 0,1	82 220	ABT 220-5DNM	2320,-	39	1	○	●					●	●
0,1	82	ABS 80-4N	960,-	38	1			●				○	●
0,1	82	ABJ 80-4NM	1040,-	38	1	○	●					○	●
0,1	120	ADB 600-C3	610,-	35	1			●				●	●
0,1	120	ADB 100-4	620,-	35	1			●				●	●
0,1	120	ABS 120-4N	1020,-	38	1							○	●
0,1	120	ABJ 120-4NM	1070,-	38	1	○	●	●				○	●
0,1	120	ABT 120-4NM	1470,-	39	1	○	●					●	●
0,1	160	ALS 160-4A	930,-	37	1			●				●	●
0,1	160	ALJ 160-4A	1030,-	37	1		●					●	●
0,1	160	ALJ 160-4AM	1050,-	37	1	○	●					●	●
0,1	210	ADB 200-4	640,-	35	1			●				●	●
0,1	220	ABS 220-4N	1070,-	38	1			●				○	●
0,1	220	ABJ 220-4NM	1160,-	38	1	○	●					○	●
0,1	220	ABT 220-4NM	1770,-	39	1	○	●					●	●
0,1	250	ALS 250-4A	980,-	37	1			●				●	●
0,1	250	ALJ 250-4A	1060,-	37	1		●					●	●
0,1	250	ALJ 250-4AM	1090,-	37	1	○	●					●	●
0,1	310	ALJ 310-4A	1190,-	37	1		●					●	●
0,1	320	ABS 320-4N	1230,-	38	1			●				○	●
0,1	320	ABJ 320-4NM	1330,-	38	1	○	●					○	●
0,1	320	ABT 320-4NM	1970,-	39	1	○	●					●	●
0,1	510	ALJ 500-4A	1950,-	37	1		●					●	●

News 2018

= Carat balances

● = standard ○ = option

from €

610,-

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HIGH-LIGHT

FACE LIFT

- ▶ Large glass draught shield with 3 sliding doors
- ▶ Large weighing ranges at a top price
- ▶ Now also available as a special carat model



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KERN ADB



FACE
LIFT



04

The price leader in analytical balances – now in a new compact design and with special carat model

Features

- **1 NEW:** KERN ADB 600-C3! Compact, space-saving carat balance with a readout of 0.001 ct and a weighing range of 600 ct. The high level of accuracy saves hard cash wherever you are weighing valuable precious stones
- **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

- Large backlit LCD display, digit height 16 mm
- Dimensions weighing surface, stainless steel, \varnothing 90 mm
- Overall dimensions (incl. draught shield) WxDxH
KERN ADB: 230x310x330 mm
KERN ADB-C: 230x310x230 mm
- Weighing space WxDxH
KERN ADB: 170x160x205 mm
KERN ADB-C: 170x160x110 mm
- Net weight approx. 4,4 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **2 Ioniser** to neutralise electrostatic charge, KERN YBI-01A, **€ 940,-**
- **3 Precious stones plate**, aluminium with practical spout, WxDxH 83x66x23 mm, KERN AEJ-A05, **€ 40,-**
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT | RS 232 | GLP | PRINTER | PCS | PERCENT | UNIT | MULTI | FORCE | 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing range [Max] g	Readout [d] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options	
						DAkkS Calibr. Certificate	
KERN						DKD KERN	€
ADB 100-4 <small>NEW</small>	120	0,1	0,2	± 0,4	620,-	963-101	138,-
ADB 200-4	210	0,1	0,2	± 0,4	640,-	963-101	138,-
ADB 600-C3 <small>NEW</small>	120 g 600 ct	0,1 mg 0,001 ct	0,2 mg 0,002 ct	± 0,4 mg 0,004 ct	610,-	963-101	138,-

NEW New model ◆ = Carat balance



1 KERN ALJ 200-5DA with optional ioniser 2, see *Accessories*

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

Features

- **1 NEW:** KERN ALJ 250-5DA! High-precision semi-micro analytical balance
- **2 NEW:** 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 on the right
- KERN ALJ-A/-AM: **Automatic internal adjustment** in the case of a change in temperature $\geq 1,2$ °C or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN 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



Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel, \varnothing 80 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×330 mm
- Weighing space W×D×H 160×140×205 mm
- Net weight approx. 7 kg
- Permissible ambient temperature
KERN ALS-A/ALJ-A/ALJ-DA: 5 °C/35 °C
KERN ALJ-AM: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ALJ-A01S05, € 40,-
- **Protective dust cover**, KERN ABS-A08, € 30,-
- **2 Draft shield rear panel with integrated ioniser** to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the KERN ALS-A/ALJ-A/ALJ-AM/ALJ-DA range, please order at the time you order your balance, the scope of delivery is the rear panel, ioniser, power supply. Factory Option, KERN ALJ-A03, € 690,-

- **3 Set for density determination** of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 390,-
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 990,-
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
KERN								MI KERN	€	DKD KERN	€
ALS 160-4A	160	0,1	-	-	0,1	± 0,3	930,-	-	-	963-101	138,-
ALS 250-4A	250	0,1	-	-	0,1	± 0,3	980,-	-	-	963-101	138,-

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 200-5DA	82 220	0,01 0,1	-	-	0,04 0,1	± 0,1 0,2	1750,-	-	-	963-101	138,-
ALJ 160-4A	160	0,1	-	-	0,1	± 0,3	1030,-	-	-	963-101	138,-
ALJ 160-4AM	160	0,1	1	10	0,2	± 0,3	1050,-	965-201	110,-	963-101	138,-
ALJ 250-4A	250	0,1	-	-	0,1	± 0,3	1060,-	-	-	963-101	138,-
ALJ 250-4AM	250	0,1	1	10	0,2	± 0,3	1090,-	965-201	110,-	963-101	138,-
ALJ 310-4A	310	0,1	-	-	0,1	± 0,3	1190,-	-	-	963-101	138,-
ALJ 500-4A	510	0,1	-	-	0,2	± 0,4	1950,-	-	-	963-101	138,-

NEW New model

04



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

Features

- KERN ABJ-NM: **Automatic internal adjustment** in the case of a change in temperature $\geq 2\text{ }^{\circ}\text{C}$ or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ABS-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **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

- **Automatic data output to the PC/printer** each time the balance is steady
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- ABJ-NM has OIML certification
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, \varnothing 91 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×325 mm
- Weighing space W×D×H 174×162×227 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 10 $^{\circ}\text{C}$ /30 $^{\circ}\text{C}$

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ACS-A02S05, **€ 40,-**
- **1 Set for density determination** of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 390,-**
- **2 Ioniser** to neutralise electrostatic charge, KERN YBI-01A, **€ 940,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, KERN ACS-A01, **€ 75,-**
- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

4 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**

STANDARD										OPTION		FACTORY	
CAL INT	CAL EXT	PRINTER	PCS	RECIPE	PERCENT	UNIT	TOL	MULTI	SC TECH	1 DAY	RS 232	DAkkS	M
ABJ-NM	ABS-N											+3 DAYS	+3 DAYS

Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options					
								Verification		DAkkS Calibr. Certificate			
									€		€		
KERN													
ABS 80-4N	82	0,1	-	-	0,2	$\pm 0,3$	960,- ↓	-	-	963-101	138,-		
ABS 120-4N	120	0,1	-	-	0,2	$\pm 0,3$	1020,- ↓	-	-	963-101	138,-		
ABS 220-4N	220	0,1	-	-	0,2	$\pm 0,3$	1070,- ↓	-	-	963-101	138,-		
ABS 320-4N	320	0,1	-	-	0,2	$\pm 0,3$	1230,- ↓	-	-	963-101	138,-		
Note: For applications that require verification, please order verificati on 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	1	10	0,2	$\pm 0,3$	1040,- ↓	965-201	110,-	963-101	138,-		
ABJ 120-4NM	120	0,1	1	10	0,2	$\pm 0,3$	1070,- ↓	965-201	110,-	963-101	138,-		
ABJ 220-4NM	220	0,1	1	10	0,2	$\pm 0,3$	1160,- ↓	965-201	110,-	963-101	138,-		
ABJ 320-4NM	320	0,1	1	10	0,2	$\pm 0,3$	1330,- ↓	965-201	110,-	963-101	138,-		

↓ Price reduction



04

The premium model with single-cell weighing system

Features

- **Automatic internal adjustment** in the case of a change in temperature $\geq 0,5\text{ }^{\circ}\text{C}$ or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **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 is steady

- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, \varnothing 80 mm
- Overall dimensions (incl. draught shield) WxDxH 217x356x338 mm
- Weighing space WxDxH 168x172x223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 $^{\circ}\text{C}$ /30 $^{\circ}\text{C}$

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ABT-A02S05, **€ 40,-**
- **1 Set for density determination** of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 390,-**
- **2 Ioniser** to neutralise electrostatic charge, KERN YBI-01A, **€ 940,-**
- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

4 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**

STANDARD

CAL INT | RS 232 | GLP | INTERN | PCS | RECIPE | PERCENT | UNIT | UNDER | MULTI | SC TECH | 1 DAY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS

Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								MI KERN	€	DKD KERN	€
ABT 120-4NM	120	0,1	1	10	0,1	$\pm 0,2$	1470,-	965-201	110,-	963-101	138,-
ABT 220-4NM	220	0,1	1	10	0,1	$\pm 0,2$	1770,-	965-201	110,-	963-101	138,-
ABT 320-4NM	320	0,1	1	10	0,1	$\pm 0,3$	1970,-	965-201	110,-	963-101	138,-
ABT 100-5NM	101	0,01	1	1	0,05	$\pm 0,15$	1980,-	965-201	110,-	963-101	138,-
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.											
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
ABT 120-5DNM	42 120	0,01 0,1	1	1	0,02 0,1	$\pm 0,05 0,2$	2120,-	965-201	110,-	963-101	138,-
ABT 220-5DNM	82 220	0,01 0,1	1	1	0,05 0,1	$\pm 0,1 0,2$	2320,-	965-201	110,-	963-101	138,-

Price reduction