

# KERN ADB 100-4

The price leader in analytical balances



## Category

Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADB

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	120 g
Weighing capacity [Max] (ct)	600 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	1.200.000
Linearity	± 0,0004 g
Reproducibility	0,0002 g
Tare range	120 g
Default unit	g
Units	g ct lb oz
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	120 g (E2)
Possible calibration points	100 g; 120 g
Stabilization time	4 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0005 g
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg

## Approval

CE mark	✓
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## Display

Display type	LCD
Display backlight	✓
Display digit height	16 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	230×310×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×205 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×230 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

## Functions

Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Underfloor weighing	None
Interfaces	RS-232 standard

## Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

## Power Supply

Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A
Input voltage device / power [Max]	12 V; 2 A
Supplied power supply	Power supply unit

# KERN ADB 100-4



The price leader in analytical balances

Plug-in power supply / adapter for EURO countries - included with the delivery

UK  
US

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	390×490×460 mm
Net weight	4,4 kg
Shipping method	Parcel service
Net weight approx.	4,4 kg
Gross weight approx.	8 kg
Shipping weight	17,6 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION



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Category	
Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADB

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,0005 ct
Resolution	2.200.000
Linearity	± 0,0004 g
Reproducibility	0,0002 g
Tare range	220 g
Default unit	g
	g
	ct
Units	lb
	oz
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (E2)
Possible calibration points	100 g; 200 g
Stabilization time	3 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0005 g
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height - smallest digit	16 mm
Display digit height	16 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	230×310×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×205 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×230 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	220.000

Power Supply	
Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A
Input voltage device / power [Max]	12 V; 2 A
Supplied power supply	Power supply unit

# KERN ADB 200-4



The price leader in analytical balances

Plug-in power supply / adapter for EURO countries - included with the delivery

UK  
US

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	380×490×460 mm
Net weight	4,4 kg
Shipping method	Parcel service
Net weight approx.	4,4 kg
Gross weight approx.	7 kg
Shipping weight	17,1 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION



# KERN ADB 600-C3

The price leader in analytical balances



## Category

Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADB

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	600 ct
Weighing capacity [Max] (ct)	600 ct
Readability [d]	0,001 ct
Readability carat [d] (ct)	0,001 ct
Resolution	600.000
Linearity	± 0,004 ct
Reproducibility	0,002 ct
Tare range	600 ct
Default unit	g
Units	g ct lb oz
USP Minimum weight of sample (k = 2, U = 0.1%)	800 mg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	120 g (E2)
Possible calibration points	100 g; 120 g
Stabilization time	4 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,0025 ct
Maximum creep (15 minutes)	2 mg
Maximum creep (30 minutes)	4 mg

## Approval

CE mark	✓
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## Display

Display type	LCD
Display backlight	✓
Display digit height	16 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	230×310×210 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×110 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×130 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

## Functions

Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Underfloor weighing	None
Interfaces	RS-232 standard

## Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

## Power Supply

Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A
Input voltage device / power [Max]	12 V; 2 A
Supplied power supply	Power supply unit

# KERN ADB 600-C3



The price leader in analytical balances

Plug-in power supply / adapter for countries - included with the delivery

EURO  
UK  
US

Plug-in power supply / adapter for countries - optional

EURO  
UK  
US  
CH

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	401×521×408 mm
Net weight	3,8 kg
Shipping method	Parcel service
Net weight approx.	3,8 kg
Gross weight approx.	7 kg
Shipping weight	17 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION



# KERN ADJ 100-4



The price leader in analytical balances with internal adjustment



Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0005 g
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	16 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	230×310×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×205 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×230 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

Power Supply	
Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADJ

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	120 g
Weighing capacity [Max] (ct)	600 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	1.200.000
Linearity	± 0,0004 g
Reproducibility	0,0002 g
Tare range	120 g
Default unit	g
	g
	ct
Units	lb
	oz
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Adjustment options	Internal calibration (automatic)
Recommended adjusting weight	120 g (E2)
Possible calibration points	100 g; 120 g
Automatic adjustment - Standard temperature deviation	2 °C
Automatic adjustment - Standard time interval	3 h
Stabilization time	4 s

# KERN ADJ 100-4



The price leader in analytical balances with internal adjustment

Input voltage device / power [Max]	12 V; 2 A
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US
Plug-in power supply / adapter for countries - optional	EURO UK US CH

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	375×524×412 mm
Net weight	5 kg
Shipping method	Parcel service
Net weight approx.	5,0 kg
Gross weight approx.	8 kg
Shipping weight	16,2 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION



# KERN ADJ 200-4



The price leader in analytical balances with internal adjustment



Eccentric loading at 1/3 [Max]	0,0005 g
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg

## Approval

CE mark	✓
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## Display

Display type	LCD
Display type	7 segment LED
Display backlight	✓
Display digit height - smallest digit	16 mm
Display digit height	16 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	230×310×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×205 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×230 mm
Material display housing	Plastics
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

## Functions

Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Interfaces	RS-232 standard

## Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	220.000

## Category

Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADJ

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,0005 ct
Resolution	2.200.000
Linearity	± 0,0004 g
Reproducibility	0,0002 g
Default unit	g

Units	g
	ct
	lb
	oz

USP Minimum weight of sample (k = 2, U = 0.1%) 400 mg

Adjustment options	Internal calibration (automatic)
Recommended adjusting weight	200 g (E2)
Possible calibration points	100 g; 200 g
Automatic adjustment - Standard temperature deviation	2 °C
Automatic adjustment - Standard time interval	3 h
Stabilization time	3 s
Warm-up time	8 h

# KERN ADJ 200-4



The price leader in analytical balances with internal adjustment

## Power Supply

Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A
Input voltage device / power [Max]	12 V; 2 A
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×443×396 mm
Net weight	5 kg
Shipping method	Parcel service
Net weight approx.	5,0 kg
Gross weight approx.	8 kg
Shipping weight	11,4 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION



# KERN ADJ 600-C3



The price leader in analytical balances with internal adjustment



Eccentric loading at 1/3 [Max]	0,0025 ct
Maximum creep (15 minutes)	2 mg
Maximum creep (30 minutes)	4 mg

## Approval

CE mark	✓
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## Display

Display type	LCD
Display backlight	✓
Display digit height	16 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	230×310×210 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×160×110 mm
Dimensions rectangular draught shield - outer (W×D×H)	175×175×130 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	90 mm
Levelling feet adjustable	✓

## Functions

Number of keys for operation	6
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Standby function	✓
Interfaces	RS-232 standard

## Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

## Power Supply

Input voltage power supply / power [Max]	100 - 265 V; 50 - 60 Hz; 2,0 A
Input voltage device / power [Max]	12 V; 2 A

## Category

Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ADJ

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	600 ct
Weighing capacity [Max] (ct)	600 ct
Readability [d]	0,001 ct
Readability carat [d] (ct)	0,001 ct
Resolution	600.000
Linearity	± 0,004 ct
Reproducibility	0,002 ct
Tare range	600 ct
Default unit	g

Units	g
	ct
	lb
	oz

USP Minimum weight of sample (k = 2, U = 0.1%)	800 mg
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Adjustment options	Internal calibration (automatic)
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Possible calibration points	100 g; 120 g
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Automatic adjustment - Standard temperature deviation	2 °C
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Automatic adjustment - Standard time interval	3 h
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Stabilization time	4 s
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Warm-up time	4 h
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# KERN ADJ 600-C3



The price leader in analytical balances with internal adjustment

Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US
Plug-in power supply / adapter for countries - optional	EURO UK US CH

## Environmental conditions

Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	336×455×425 mm
Net weight	4,5 kg
Shipping method	Parcel service
Net weight approx.	4,6 kg
Gross weight approx.	7 kg
Shipping weight	13 kg

## Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION

