

KERN ABT 100-5NM



The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	10 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,00015 g

Approval

CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD
Display digit height	14 mm

Construction

Dimension housing (W×D×H)	217×356×338 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	101 g
Weighing capacity [Max] (ct)	505 ct
Readability [d]	0,00001 g
Readability carat [d] (ct)	0,0001 ct
Resolution	10.100.000
Linearity	± 0,00015 g
Reproducibility	0,00005 g
Tare range	101 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,001 g
USP Minimum weight of sample (k = 2, U = 0.1%)	100 mg
Minimum weight [Min] (ct)	0,01 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

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The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	101.000

Power Supply

Input voltage power supply / power [Max]	110 V - 230 V AC
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	433×684×647 mm
Net weight	7,529 kg
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	13 kg
Shipping weight	38,3 kg

Services (optional)

Article number for conformity assessment	965-201
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Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

Pictograms

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KERN ABT 120-4NM



The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	4 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0003 g

Approval

CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD
Display digit height	14 mm

Construction

Dimension housing (W×D×H)	217×356×338 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
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	± 0,0002 g
Reproducibility	0,0001 g
Tare range	120 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,01 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 mg
Minimum weight [Min] (ct)	0,1 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

KERN ABT 120-4NM



The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	590×400×540 mm
Net weight	7 kg
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	12 kg
Shipping weight	25,5 kg

Services (optional)

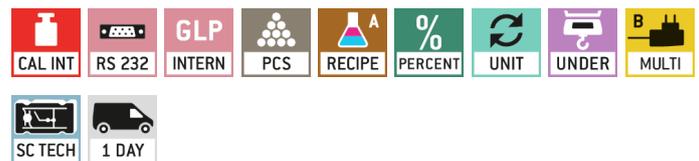
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Pictograms

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The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	10 s; 4 s
Warm-up time	8 h; 8 h
Eccentric loading at 1/3 [Max]	0,00009 g; 0,0003 g

Approval	
CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g; 0,001 g
Verification scale interval [e] (ct)	0,01 ct; 0,01 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display digit height	14 mm

Construction	
Dimension housing (W×D×H)	215×340×335 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

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

Measuring System	
Construction type of the scale	Multi-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	42 g; 120 g
Weighing capacity [Max] (ct)	210,045 ct; 600 ct
Readability [d]	0,00001 g; 0,0001 g
Readability carat [d] (ct)	0,0001 ct; 0,001 ct
Resolution	4.200.000, 1.200.000
Linearity	± 0,00003 g; 0,0002 g
Reproducibility	0,00002 g; 0,0001 g
Tare range	120 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,001 g
USP Minimum weight of sample (k = 2, U = 0.1%)	40 mg
Minimum weight [Min] (ct)	0,01 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

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The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	430×685×650 mm
Net weight	7,5 kg
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	13 kg
Shipping weight	38,3 kg

Services (optional)

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KERN ABT 220-4NM



The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	4 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0003 g

Approval

CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD
Display digit height	14 mm

Construction

Dimension housing (W×D×H)	217×345×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	2.200.000
Linearity	± 0,0002 g
Reproducibility	0,0001 g
Tare range	220 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,01 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 mg
Minimum weight [Min] (ct)	0,1 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

KERN ABT 220-4NM



The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	220.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×585×545 mm
Net weight	7,65 kg
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	12 kg
Shipping weight	25,5 kg

Services (optional)

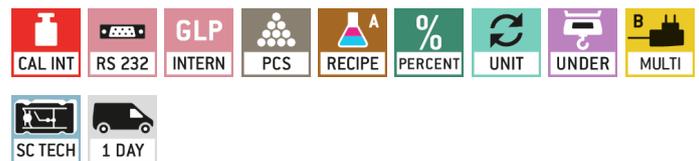
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KERN ABT 220-5DNM



The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	10 s; 4 s
Warm-up time	8 h; 8 h
Eccentric loading at 1/3 [Max]	0,00012 g; 0,0003 g

Approval

CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g; 0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD
Display digit height	14 mm

Construction

Dimension housing (W×D×H)	215×340×335 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

Category

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

Measuring System

Construction type of the scale	Multi-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	82 g; 220 g
Weighing capacity [Max] (ct)	410,045 ct; 1100 ct
Readability [d]	0,00001 g; 0,0001 g
Readability carat [d] (ct)	0,0001 ct; 0,001 ct
Resolution	8.200.000, 2.200.000
Linearity	± 0,0001 g; 0,0002 g
Reproducibility	0,00005 g; 0,0001 g
Tare range	220 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,001 g
USP Minimum weight of sample (k = 2, U = 0.1%)	100 mg
Minimum weight [Min] (ct)	0,01 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

KERN ABT 220-5DNM



The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	220.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	430×685×650 mm
Net weight	7,5 kg
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	13 kg
Shipping weight	38,3 kg

Services (optional)

Article number for conformity assessment	965-201
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Pictograms

STANDARD



OPTION



FACTORY



KERN ABT 320-4NM



The premium model with single-cell weighing system



Automatic adjustment - Standard temperature deviation	0,5 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	4 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0003 g

Approval

CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD
Display digit height	14 mm

Construction

Dimension housing (W×D×H)	217×356×337 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Material display housing	Plastics
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (included in delivery)
Interfaces	RS-232 standard

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	320 g
Weighing capacity [Max] (ct)	1600 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	3.200.000
Linearity	± 0,0003 g
Reproducibility	0,00015 g
Tare range	320 g
Default unit	g
Units	g ct
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,01 g
USP Minimum weight of sample (k = 2, U = 0.1%)	300 mg
Minimum weight [Min] (ct)	0,1 ct
Adjustment options	Adjusting with external weight Internal calibration (automatic) Adjusting with internal weight (manual)

KERN ABT 320-4NM



The premium model with single-cell weighing system

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 20, 50, 100
Counting resolution (laboratory conditions)	320.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	405×580×550 mm
Net weight	7,7 kg
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	12 kg
Shipping weight	25,8 kg

Services (optional)

Article number for conformity assessment	965-201
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Pictograms

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