

KERN EG 220-3NM



The classic balance with robust tuning fork measuring system



Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,002 g

Approval	
CE mark	✓
Accuracy classe	II
Verification scale interval [e]	0,01 g
Verification scale interval [e] (ct)	0,1 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 ct
Readability [d]	0,001 g
Readability carat [d] (ct)	0,01 ct
Resolution	220.000
Linearity	± 0,002 g
Reproducibility	0,001 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,02 g
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Minimum weight [Min] (ct)	0,2 ct

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Underfloor weighing	Eye (included in delivery)
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	10, 30, 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, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

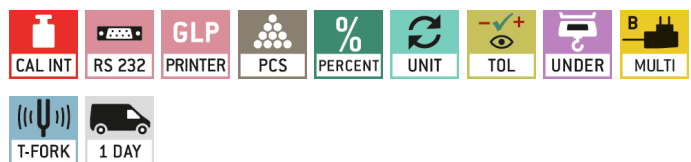
Environmental conditions	
Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	320×410×230 mm
Net weight	1,9 kg
Shipping method	Parcel service
Net weight approx.	2,0 kg
Gross weight approx.	3,2 kg
Shipping weight	6 kg

Services (optional)	
Article number for conformity assessment	965-216
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

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Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,003 g

Approval	
CE mark	✓
Accuracy classe	II
Verification scale interval [e]	0,01 g
Verification scale interval [e] (ct)	0,1 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	420 g
Weighing capacity [Max] (ct)	2100 ct
Readability [d]	0,001 g
Readability carat [d] (ct)	0,01 ct
Resolution	420.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,02 g
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Minimum weight [Min] (ct)	0,2 ct

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Underfloor weighing	Eye (optional)
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	10, 30, 50, 100
Counting resolution (laboratory conditions)	420.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×320×220 mm
Net weight	1,759 kg
Shipping method	Parcel service
Net weight approx.	1,8 kg
Gross weight approx.	3,4 kg
Shipping weight	5,6 kg

Services (optional)

Article number for conformity assessment	965-216
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

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Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,004 g

Approval	
CE mark	✓
Accuracy classe	I
Verification scale interval [e]	0,01 g
Verification scale interval [e] (ct)	0,1 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	620 g
Weighing capacity [Max] (ct)	3100 ct
Readability [d]	0,001 g
Readability carat [d] (ct)	0,01 ct
Resolution	620.000
Linearity	± 0,004 g
Reproducibility	0,001 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,1 g
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Minimum weight [Min] (ct)	0,2 ct

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The classic balance with robust tuning fork measuring system

Underfloor weighing	Eye (optional)
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	10, 30, 50, 100
Counting resolution (laboratory conditions)	620.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	315×360×265 mm
Net weight	1,952 kg
Shipping method	Parcel service
Net weight approx.	2,0 kg
Gross weight approx.	3,4 kg
Shipping weight	6 kg

Services (optional)

Article number for conformity assessment	965-201
Article number for DAkkS calibration	963-103
Article number for certificate of conformity (verification)	969-517

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KERN EG 2200-2NM



The classic balance with robust tuning fork measuring system



Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,03 g

Approval	
CE mark	✓
Accuracy classe	II
Verification scale interval [e]	0,1 g
Verification scale interval [e] (ct)	1 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	2200 g
Weighing capacity [Max] (ct)	11000 ct
Readability [d]	0,01 g
Readability carat [d] (ct)	0,1 ct
Resolution	220.000
Linearity	± 0,01 g
Reproducibility	0,01 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,5 g
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Minimum weight [Min] (ct)	5 ct

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The classic balance with robust tuning fork measuring system

Counting

Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 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, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×410×220 mm
Net weight	3,84 kg
Shipping method	Parcel service
Net weight approx.	4,0 kg
Gross weight approx.	6 kg
Shipping weight	5,9 kg

Services (optional)

Article number for conformity assessment	965-216
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Article number for DAkkS calibration 963-127

Article number for certificate of conformity (verification) 969-517

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Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,03 g

Approval	
CE mark	✓
Accuracy classe	II
Verification scale interval [e]	0,1 g
Verification scale interval [e] (ct)	1 ct
Conformity assessment possible ex works	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	4200 g
Weighing capacity [Max] (ct)	21000 ct
Readability [d]	0,01 g
Readability carat [d] (ct)	0,1 ct
Resolution	420.000
Linearity	± 0,02 g
Reproducibility	0,01 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,5 g
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Minimum weight [Min] (ct)	5 ct

KERN EG 4200-2NM



The classic balance with robust tuning fork measuring system

Counting

Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	420.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	410×325×230 mm
Net weight	3,87 kg
Shipping method	Parcel service
Net weight approx.	4,0 kg
Gross weight approx.	6 kg
Shipping weight	6,1 kg

Services (optional)

Article number for conformity assessment	965-216
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Article number for DAkkS calibration 963-127

Article number for certificate of conformity (verification) 969-517

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Eccentric loading at 1/3 [Max]	0,003 g
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	no

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	1 mg

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	220 g
Readability [d]	0,001 g
Resolution	220.000
Linearity	± 0,002 g
Reproducibility	0,001 g
Default unit	g
Units	g gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (F1)
Stabilization time	2 s
Warm-up time	120 min

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Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	10, 30, 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, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×320×220 mm
Net weight	1,36 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	3,0 kg
Shipping weight	5,6 kg

Services (optional)

Article number for DAkkS calibration	963-127
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Eccentric loading at 1/3 [Max]	0,003 g
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	1 mg

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	420 g
Readability [d]	0,001 g
Resolution	420.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g
Units	g gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (E2); 200 g (E2)
Stabilization time	2 s
Warm-up time	4 h

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Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	420.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×325×220 mm
Net weight	1,358 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	3,0 kg
Shipping weight	5,7 kg

Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

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KERN EW 620-3NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
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

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	620 g
Readability [d]	0,001 g
Resolution	620.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	500 g (E2)
Stabilization time	2 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,003 g

KERN EW 620-3NM



The classic balance with robust tuning fork measuring system

Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	620.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×325×220 mm
Net weight	1,365 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	3,0 kg
Shipping weight	5,7 kg

Services (optional)

Article number for DAkkS calibration	963-103
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN EW 820-2NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	170×140 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	82.000

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	820 g
Readability [d]	0,01 g
Resolution	82.000
Linearity	± 0,01 g
Reproducibility	0,01 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (F1); 500 g (F1)
Stabilization time	2 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,03 g

KERN EW 820-2NM



The classic balance with robust tuning fork measuring system

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×405×230 mm
Net weight	1,52 kg
Shipping method	Parcel service
Net weight approx.	1,6 kg
Gross weight approx.	3,0 kg
Shipping weight	6,1 kg

Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN EW 2200-2NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

Approval

CE mark	✓
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Display

Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	220.000

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	2200 g
Readability [d]	0,01 g
Resolution	220.000
Linearity	± 0,01 g
Reproducibility	0,01 g
Default unit	g

Units	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	tl (Singap, Malays)
	ct
	mo
	lb
oz	
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	2 kg (F1)
Stabilization time	2 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,03 g

KERN EW 2200-2NM



The classic balance with robust tuning fork measuring system

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×410×220 mm
Net weight	2,866 kg
Shipping method	Parcel service
Net weight approx.	3,0 kg
Gross weight approx.	4,2 kg
Shipping weight	5,9 kg

Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN EW 4200-2NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

Approval

CE mark	✓
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Display

Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	420.000

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	4200 g
Readability [d]	0,01 g
Resolution	420.000
Linearity	± 0,02 g
Reproducibility	0,01 g
Default unit	g

Units	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	tl (Singap, Malays)
	ct
	mo
	lb
	oz
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	2 kg (E2); 2 kg (E2)
Stabilization time	2 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,03 g

KERN EW 4200-2NM



The classic balance with robust tuning fork measuring system

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	320×410×230 mm
Net weight	2,862 kg
Shipping method	Parcel service
Net weight approx.	3,0 kg
Gross weight approx.	4,2 kg
Shipping weight	6 kg

Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN EW 6200-2NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

Approval

CE mark	✓
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Display

Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	10 mg
Smallest piece weight when piece counting - normal conditions	100 mg
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	620.000

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	6200 g
Readability [d]	0,01 g
Resolution	620.000
Linearity	± 0,03 g
Reproducibility	0,01 g
Default unit	g

Units	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	tl (Singap, Malays)
	ct
	mo
	lb
oz	
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	5 kg (E2)
Stabilization time	3 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,03 g

KERN EW 6200-2NM



The classic balance with robust tuning fork measuring system

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	410×330×230 mm
Net weight	2,874 kg
Shipping method	Parcel service
Net weight approx.	3,0 kg
Gross weight approx.	4,2 kg
Shipping weight	6,2 kg

Services (optional)

Article number for DAkkS calibration	963-104
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN EW 12000-1NM



The classic balance with robust tuning fork measuring system



Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g

Approval	
CE mark	✓

Display	
Display type	LCD
Display screen size	109×22 mm
Display backlight	✓
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	180×235×75 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	180×160 mm
Levelling feet adjustable	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	100 mg
Smallest piece weight when piece counting - normal conditions	1 g
Reference quantity	10, 30, 50, 100
Counting resolution (laboratory conditions)	120.000

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	12000 g
Readability [d]	0,1 g
Resolution	120.000
Linearity	± 0,2 g
Reproducibility	0,1 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	10 kg (F1)
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,3 g

KERN EW 12000-1NM



The classic balance with robust tuning fork measuring system

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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 CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	325×410×220 mm
Net weight	2,887 kg
Shipping method	Parcel service
Net weight approx.	3,0 kg
Gross weight approx.	4,2 kg
Shipping weight	5,9 kg

Services (optional)

Article number for DAkkS calibration	963-128
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION

