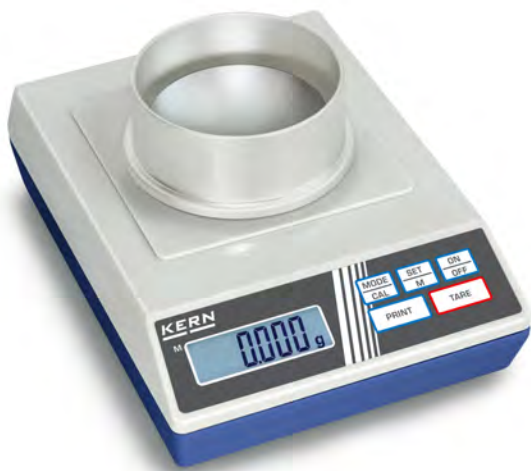


KERN 440-21A

The classic balance in the laboratory



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

Approval

CE mark	✓
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Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction

Dimension housing (W×D×H)	165×230×80 mm
Dimensions ring-shaped draught shield - inner (Ø×H)	90×40 mm
Dimensions ring-shaped draught shield - outer (Ø×H)	106×42 mm
Dimensions completely mounted (W×D×H)	165×230×123 mm
Material housing	plastic
Material weighing plate	plastic, with conductive lacquer
Material draught shield	plastic
Dimensions weighing surface (Ø)	81 mm

Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	None
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	2 mg
Smallest piece weight when piece counting - normal conditions	20 mg
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	30.000

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	60 g
Readability [d]	0,001 g
Resolution	60.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g

Units	g
	gn
	dwt
	tl (Tw)
	tl (HK)
	ozt
	ct
	mo
	oz
	tol

USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
--	-----

Adjustment options	Adjusting with external weight
Recommended adjusting weight	50 g (F2)
Possible calibration points	10 g; 20 g; 40 g; 50 g; 60 g
Stabilization time	3 s
Warm-up time	120 min

KERN 440-21A



The classic balance in the laboratory

Power Supply

Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

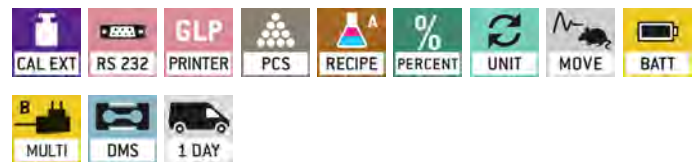
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	410×270×220 mm
Net weight	0,93 kg
Shipping method	Parcel service
Net weight approx.	0,95 kg
Gross weight approx.	1,4 kg
Shipping weight	4,9 kg

Services (optional)

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

Pictograms

STANDARD



OPTION



KERN 440-33N

The classic balance in the laboratory



Stabilization time	3 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	0,03 g
Maximum creep (15 minutes)	40 mg
Maximum creep (30 minutes)	80 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (Ø)	105 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	20 mg
Smallest piece weight when piece counting - normal conditions	200 mg
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	10.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	200 g
Readability [d]	0,01 g
Resolution	20.000
Linearity	± 0,02 g
Reproducibility	0,01 g
Default unit	g
Units	kg g gn dwt tl (Tw) tl (HK) ozt 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 (M1)
Possible calibration points	50 g; 100 g; 150 g; 200 g

KERN 440-33N



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

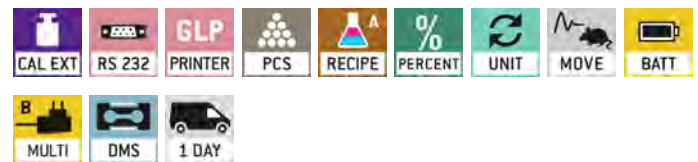
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	210×350×175 mm
Net weight	0,952 kg
Shipping method	Parcel service
Net weight approx.	1,00 kg
Gross weight approx.	1,4 kg
Shipping weight	2,6 kg

Services (optional)

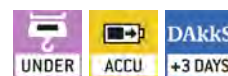
Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN 440-35N

The classic balance in the laboratory



Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,03 g
Maximum creep (15 minutes)	40 mg
Maximum creep (30 minutes)	80 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (Ø)	105 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	20 mg
Smallest piece weight when piece counting - normal conditions	200 mg
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	20.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	400 g
Readability [d]	0,01 g
Resolution	40.000
Linearity	± 0,03 g
Reproducibility	0,01 g
Default unit	g
Units	g gn dwt tl (Tw) tl (HK) ozt ct mo lb oz ffa tol
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (F2); 200 g (F2)
Possible calibration points	100 g; 200 g; 300 g; 400 g

KERN 440-35N



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

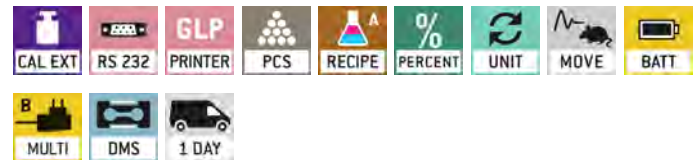
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	212×348×175 mm
Net weight	1,01 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,6 kg
Shipping weight	2,6 kg

Services (optional)

Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN 440-35A

The classic balance in the laboratory



Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,03 g
Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (Ø)	105 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	20 mg
Smallest piece weight when piece counting - normal conditions	200 mg
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	30.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	600 g
Readability [d]	0,01 g
Resolution	60.000
Linearity	± 0,03 g
Reproducibility	0,01 g
Default unit	g

Units	g
	gn
	dwt
	tl (Tw)
	tl (HK)
	ozt
	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	500 g (F2)
Possible calibration points	100 g; 200 g; 400 g; 500 g; 600 g
Stabilization time	3 s

KERN 440-35A



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

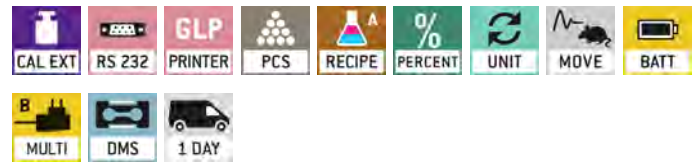
Environmental conditions	
Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	345×215×170 mm
Net weight	0,959 kg
Shipping method	Parcel service
Net weight approx.	1,00 kg
Gross weight approx.	1,4 kg
Shipping weight	2,5 kg

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

Pictograms

STANDARD



OPTION



KERN 440-43N

The classic balance in the laboratory



Eccentric loading at 1/3 [Max]	0,3 g
Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg

Approval

CE mark	✓
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Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction

Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	130×130 mm

Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min / off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	200 mg
Smallest piece weight when piece counting - normal conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	2.000

Power Supply

Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	400 g
Readability [d]	0,1 g
Resolution	4.000
Linearity	± 0,2 g
Reproducibility	0,1 g
Default unit	g

Units	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	mo
	lb
	oz
ffa	
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
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Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (M2); 200 g (M2)
Possible calibration points	100 g; 200 g; 300 g; 400 g
Stabilization time	3 s
Warm-up time	10 min

KERN 440-43N



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

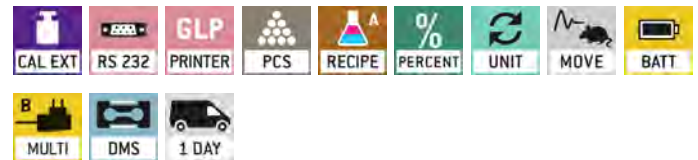
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	205×345×175 mm
Net weight	1,015 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,6 kg
Shipping weight	2,5 kg

Services (optional)

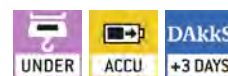
Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN 440-45N

The classic balance in the laboratory



Eccentric loading at 1/3 [Max]	0,3 g
Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg

Approval

CE mark	✓
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Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction

Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	130×130 mm

Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	200 mg
Smallest piece weight when piece counting - normal conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	5.000

Power Supply

Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	1000 g
Readability [d]	0,1 g
Resolution	10.000
Linearity	± 0,2 g
Reproducibility	0,1 g
Default unit	g

Units	kg
	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	mo
	lb
	oz
	ffa
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	1 kg (M1)
Possible calibration points	200 g; 500 g; 700 g; 1 kg
Stabilization time	3 s
Warm-up time	30 min

KERN 440-45N



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

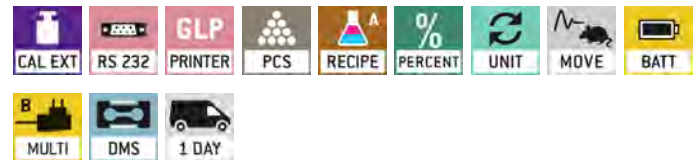
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	210×350×170 mm
Net weight	1,096 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,6 kg
Shipping weight	2,5 kg

Services (optional)

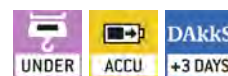
Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN 440-47N

The classic balance in the laboratory



Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	130×130 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	200 mg
Smallest piece weight when piece counting - normal conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	10.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	2000 g
Readability [d]	0,1 g
Resolution	20.000
Linearity	± 0,2 g
Reproducibility	0,1 g
Default unit	g
Units	g dwt tl (Tw) tl (HK) ozt 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	2 kg (M1)
Possible calibration points	500 g; 1 kg; 1,5 kg; 2 kg
Stabilization time	3 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	0,3 g

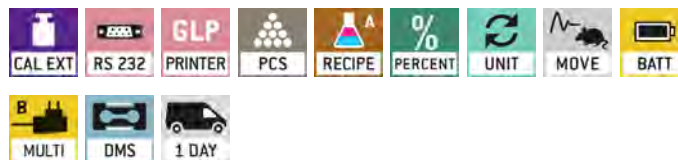
KERN 440-47N



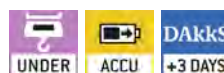
The classic balance in the laboratory

Pictograms

STANDARD



OPTION



	US
	CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	348×212×178 mm
Net weight	1,1 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,6 kg
Shipping weight	2,6 kg

Services (optional)

Article number for adjustment at the location of installation	961-247
Article number for DAKKS calibration	963-127
Article number for certificate of conformity (verification)	969-517

KERN 440-49N

The classic balance in the laboratory



Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	150×170 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	200 mg
Smallest piece weight when piece counting - normal conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	20.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	4000 g
Readability [d]	0,1 g
Resolution	40.000
Linearity	± 0,3 g
Reproducibility	0,1 g
Default unit	g
Units	kg
	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	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	2 kg (F2); 2 kg (F2)
Possible calibration points	1 kg; 2 kg; 3 kg; 4 kg
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,3 g

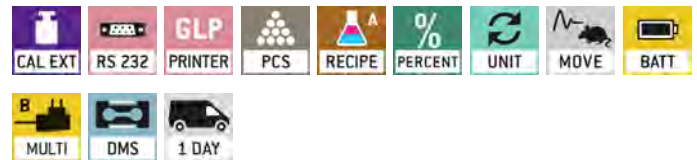
KERN 440-49N



The classic balance in the laboratory

Pictograms

STANDARD



OPTION



	US
	CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	210×350×175 mm
Net weight	1,177 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,6 kg

Services (optional)

Article number for adjustment at the location of installation	961-247
Article number for DAKKS calibration	963-127
Article number for certificate of conformity (verification)	969-517

KERN 440-49A

The classic balance in the laboratory



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

Approval

CE mark	✓
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Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction

Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	150×170 mm

Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	200 mg
Smallest piece weight when piece counting - normal conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	30.000

Power Supply

Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	6000 g
Readability [d]	0,1 g
Resolution	60.000
Linearity	± 0,3 g
Reproducibility	0,1 g
Default unit	g

Units	kg
	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	mo
	lb
	oz
	ffa
tol	

USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
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Adjustment options	Adjusting with external weight
Recommended adjusting weight	5 kg (F2)
Possible calibration points	1 kg; 2 kg; 5 kg; 6 kg
Stabilization time	3 s
Warm-up time	120 min

KERN 440-49A



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

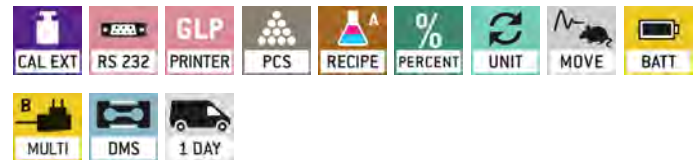
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	345×210×170 mm
Net weight	1,18 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,6 kg
Shipping weight	2,5 kg

Services (optional)

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

Pictograms

STANDARD



OPTION



KERN 440-51N

The classic balance in the laboratory



Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Dimensions weighing platform (W×D×H)	153×172×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	150×170 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min / off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	2 g
Smallest piece weight when piece counting - normal conditions	20 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	2.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	4000 g
Readability [d]	1 g
Resolution	4.000
Linearity	± 2 g
Reproducibility	1 g
Default unit	g
Units	kg g dwt tl (Tw) tl (HK) ozt mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 kg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	2 kg (M2); 2 kg (M2)
Possible calibration points	1 kg; 2 kg; 3 kg; 4 kg
Stabilization time	2 s
Warm-up time	10 min
Eccentric loading at 1/3 [Max]	3 g

KERN 440-51N



The classic balance in the laboratory

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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

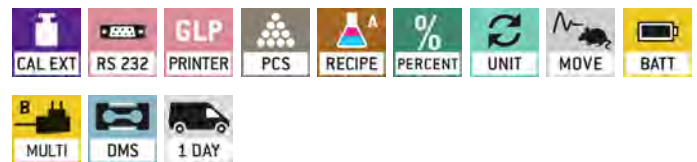
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	347×207×170 mm
Net weight	1,121 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,4 kg

Services (optional)

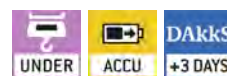
Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



KERN 440-53N

The classic balance in the laboratory



Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g

Approval	
CE mark	✓

Display	
Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction	
Dimension housing (W×D×H)	165×230×80 mm
Material housing	plastic
Material weighing plate	stainless steel
Dimensions weighing surface (W×D)	150×170 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	Hook (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	2 g
Smallest piece weight when piece counting - normal conditions	20 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	3.000

Power Supply	
Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	6000 g
Readability [d]	1 g
Resolution	6.000
Linearity	± 2 g
Reproducibility	1 g
Default unit	g
Units	kg g dwt tl (Tw) tl (HK) ozt mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 kg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	5 kg (M2)
Possible calibration points	1 kg; 2 kg; 5 kg; 6 kg
Stabilization time	2 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	3 g

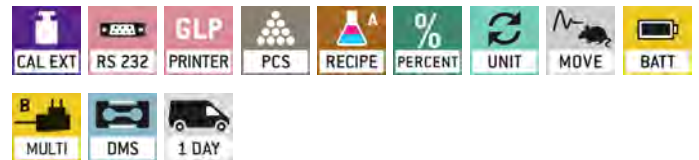
KERN 440-53N



The classic balance in the laboratory

Pictograms

STANDARD



OPTION



	US
	CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

Environmental conditions

Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	350×210×170 mm
Net weight	1,182 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,5 kg

Services (optional)

Article number for adjustment at the location of installation	961-248
Article number for DAKKS calibration	963-128
Article number for certificate of conformity (verification)	969-517