

# KERN EMS 300-3



Entry level model in the low-cost range with large weighing plate



Display	
Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	200×280×65 mm
Dimensions rectangular draught shield - inner (W×D×H)	145×145×65 mm
Dimensions rectangular draught shield - outer (W×D×H)	165×165×80 mm
Dimensions completely mounted (W×D×H)	200×280×126 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic, with conductive lacquer
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
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

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)	150.000

Power Supply	
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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

Category	
Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	300 g
Readability [d]	0,001 g
Resolution	300.000
Linearity	± 0,005 g
Reproducibility	0,002 g
Tare range	300 g
Default unit	g
Units	g
	dwt
	ozt
	oz
Adjustment options	Adjusting with external weight
Recommended adjusting weight	300 g (F1)
Possible calibration points	300 g
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,005 g
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg

Approval	
CE mark	✓

# KERN EMS 300-3



Entry level model in the low-cost range with large weighing plate

	US CH
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

## Environmental conditions

Humidity of environment [Min]	40 %
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)	240×485×170 mm
Net weight	1,4 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	2,2 kg
Shipping weight	4 kg

## Services (optional)

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

## Pictograms

### STANDARD



### OPTION



# KERN EMS 3000-2



Entry level model in the low-cost range with large weighing plate



## Display

Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	200×280×65 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

## Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)

## 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)	150.000

## Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

## Category

Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	3000 g
Readability [d]	0,01 g
Resolution	300.000
Linearity	± 0,05 g
Reproducibility	0,02 g
Tare range	3000 g
Default unit	g

Units	g dwt ozt oz
Adjustment options	Adjusting with external weight
Recommended adjusting weight	3 kg (F2)
Possible calibration points	3 kg
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,05 g
Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg

## Approval

CE mark	✓
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# KERN EMS 3000-2



Entry level model in the low-cost range with large weighing plate

## Environmental conditions

Humidity of environment [Min]	40 %
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)	310×234×164 mm
Net weight	1,575 kg
Shipping method	Parcel service
Net weight approx.	1,6 kg
Gross weight approx.	2,0 kg
Shipping weight	2,4 kg

## Services (optional)

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

## Pictograms

### STANDARD



### OPTION



# KERN EMS 6K0.1



Entry level model in the low-cost range with large weighing plate



## Display

Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	200×280×65 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

## Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

## 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]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

## Category

Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

## 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
Tare range	6000 g
Default unit	g

## Units

g  
dwt  
ozt  
oz

Adjustment options	Adjusting with external weight
Recommended adjusting weight	6 kg (F2)
Possible calibration points	6 kg
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,5 g
Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g

## Approval

CE mark	✓
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# KERN EMS 6K0.1



Entry level model in the low-cost range with large weighing plate

## Environmental conditions

Humidity of environment [Min]	40 %
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)	235×310×160 mm
Net weight	1,19325 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,3 kg

## Services (optional)

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

## Pictograms

### STANDARD



### OPTION



# KERN EMS 12K0.1



Entry level model in the low-cost range with large weighing plate



Display	
Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	200×280×65 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

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)	60.000

Power Supply	
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

Category	
Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	12000 g
Readability [d]	0,1 g
Resolution	120.000
Linearity	± 0,3 g
Reproducibility	0,1 g
Tare range	12000 g
Default unit	g

Units	g dwt ozt oz
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Adjustment options	Adjusting with external weight
Recommended adjusting weight	12 kg (F2)
Possible calibration points	12 kg
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,5 g
Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g

Approval	
CE mark	✓

# KERN EMS 12K0.1



Entry level model in the low-cost range with large weighing plate

## Environmental conditions

Humidity of environment [Min]	40 %
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)	315×235×160 mm
Net weight	1,45 kg
Shipping method	Parcel service
Net weight approx.	1,6 kg
Gross weight approx.	2,0 kg
Shipping weight	2,4 kg

## Services (optional)

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

## Pictograms

### STANDARD



### OPTION





# KERN EMS 6K1



Entry level model in the low-cost range with large weighing plate



## Display

Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

## Construction

Dimension housing (W×D×H)	200×280×65 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

## Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

## 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]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

## Category

Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

## 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	± 3 g
Reproducibility	1 g
Tare range	6000 g
Default unit	g

## Units

g  
dwt  
ozt  
oz

Adjustment options	Adjusting with external weight
Recommended adjusting weight	6 kg (M1)
Possible calibration points	6 kg
Stabilization time	3 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	5 g
Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g

## Approval

CE mark	✓
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# KERN EMS 6K1



Entry level model in the low-cost range with large weighing plate

## Environmental conditions

Humidity of environment [Min]	40 %
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)	310×240×160 mm
Net weight	1,22 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	1,8 kg
Shipping weight	2,4 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

## Pictograms

### STANDARD



### OPTION



# KERN EMS 12K1



Entry level model in the low-cost range with large weighing plate



Display	
Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	200×280×65 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

Functions	
Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

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)	6.000

Power Supply	
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
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
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

Category	
Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMS

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	12000 g
Readability [d]	1 g
Resolution	12.000
Linearity	± 3 g
Reproducibility	1 g
Tare range	12000 g
Default unit	g
Units	g dwt ozt oz
Adjustment options	Adjusting with external weight
Recommended adjusting weight	12 kg (M1)
Possible calibration points	12 kg
Stabilization time	3 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	5 g
Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g

Approval	
CE mark	✓

# KERN EMS 12K1



Entry level model in the low-cost range with large weighing plate

## Environmental conditions

Humidity of environment [Min]	40 %
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)	235×310×165 mm
Net weight	1,2 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	961-248
Article number for DAkkS calibration	963-128
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION

