

42



KERN® BALANCES

42 - 2

POCKET SCALES AND ACCESSORIES

42 - 11

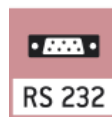




Internal adjusting program :
quick setting of the balance's
accuracy with internal adjusting
weight (motor-driven).



External adjusting program :
for quick setting of the balance's
accuracy. External adjusting weight
required.



Data interface RS-232 :
to connect the balance to a printer,
PC or network.



GLP/ISO log :
the balance displays the weight,
date and time, regardless of printer
connected.



GLP/ISO log :
with weight, date and time. Only
with KERN printers.



Piece counting :
reference quantities selectable.
Display can be switched from piece
to weight.



Summation level :
weight values of similar goods can
be aggregated and the sum
printed.



Formula :
separate memory for the weight of
the tare container and the recipe
ingredients (net total).



Percentage determination :
displays the deviation from the
reference weight (100%) in %
instead of grams.



Weighing units :
can be switched to e.g. nonmetric
units at the touch of a key.



Weighing with tolerance range :
upper and lower limiting can be
programmed individually, e. g.
sorting and portioning.



Vibration-free weighing :
(animal weighing program)
Vibrations are filtered out so that a
stable weight is obtained.



Suspended weighing :
load support with hook on the
underside of the balance.



Battery operation :
prepared to function on battery.
The battery type is specified for
each device.



Rechargeable battery pack :
rechargeable set.



Universal network adapter :
external, with universal input and
optional input adapters.
A) UE, GB ; B) UE, GB, CH, USA
C) UE, GB, CH, USA, AUS



Mains adapter :
integrated with the balance, 230
V/50 Hz. On request, also as
standard for other countries.



Strain gauge :
electrical resistor on an elastic
deforming body.



Tuning fork principle :
a resonating body (like a tuning
fork) is electromagnetically
excited, causing it to oscillate.



Electromagnetic force
compensation :
coil in a permanent magnet. For
the most accurate weightings.



Single cell technology :
advanced version of the force
compensation principle with the
highest level of precision.



Verification possible :
the time required for verification is
specified in the pictogram.



DAKkS calibration :
the time required for DAKkS
calibration is shown in the
pictogram.



Warranty :
the warranty period is shown in the
pictogram (2 years).

Note : According to EU directive 2014/31/EU, balances must be officially verified if they are used as follows :

- in commercial transactions if the price of goods is determined by weighing
- in the production of medicines in pharmacies as well as for analyses in the medical and pharmaceutical laboratory
- for official purposes
- in the production of finished packages
- in medicine.

KERN® balances and scales are worldwide renowned for being precise and reliable.

Tare function, parts counting, memory, percentage determination and internal or external adjusting are possible.

All balances and scales are delivered with user's manual. Numerous of other models are available according to your needs.

Please contact our sales department.

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42 g / 120 g (0.01 mg / 0.1 mg)



OPTION



FACTORY

MSA	Model	Voltage	Size	Kg
42.189	ABT 120-5DNM	220 - 240 V 50 Hz	215 x 340 x 335 mm	12.600

Dual-range analytical balance, Premium model with Single-Cell weighing system
- Automatic internal adjustment in the case of a change in temperature > 0.5° C and time-controlled every 4 hours, guarantees high degree of accuracy and makes the balance independent of its location of use

- Dosage aid controlled through the display
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Stainless steel weighing plate Ø 80 mm.

Weighing capacity max.	42 g / 120 g
Readability	0.01 mg / 0.1 mg
Repeatability	0.02 mg / 0.1 mg
Linearity	0.05 mg / 0.2 mg
Recommended adjusting weight	-
Other weighing units	ct

Screen, digits height	14 mm
Minimum piece weight (counting)	10 mg

Adapters included	CH EURO UK US
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Option Verification	965-201
Option DAkks Certificate	963-101

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160 g (0.1 mg)



OPTION



FACTORY

MSA	Model	Voltage	Size	Kg
42.184	ALJ 160-4AM	110 - 240 V	210 x 340 x 330 mm	9.200

Analytical balance with large weighing ranges.

- Automatic internal adjustment in the case of a change in temperature greater than or equal to 1.2° C and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Ergonomically optimised keypad for left and righthanded users
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Stainless steel weighing plate Ø 80 mm.

Weighing capacity max.	160 g
Readability	0.1 mg
Repeatability	0.1 mg
Linearity	0.3 mg
Recommended adjusting weight	150 g (E2)
Other weighing units	ct - dwt - gn - lb - mo - oz - ozt - tl (HK) - tl (SG, MY) - tl (TW)

Screen, digits height	17 mm
Minimum piece weight (counting)	10 mg

Adapters included	CH EURO UK US
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Option Verification	965-201
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210 g (0.1 mg)



OPTION

MSA	Model	Voltage	Size	Kg
42.187	ADB 200-4	100 - 265 V 50/60 Hz	207 x 310 x 315 mm	6.900

The price leader in analytical balances.

- Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Compact size, practical for small spaces
- Simple and convenient 6-key operation
- Stainless steel weighing plate Ø 90 mm.

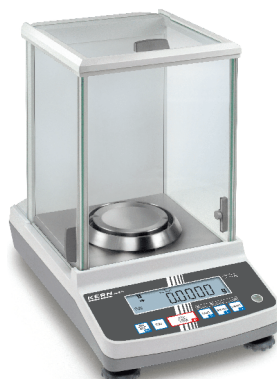
Weighing capacity max.	210 g
Readability	0.1 mg
Repeatability	0.2 mg
Linearity	0.4 mg
Recommended adjusting weight	200 g (E2)
Other weighing units	ct - lb - oz

Screen, digits height	16 mm
Minimum piece weight (counting)	10 mg

Adapters included CH EURO UK US

Option Verification	-
Option DAkkS Certificate	963-101

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320 g (0.1 mg)



OPTION



FACTORY

MSA	Model	Voltage	Size	Kg
42.188	ABJ 320-4NM	110 - 230 V	210 x 340 x 325 mm	8.970

The bestseller in analytical balances, with high-quality Single-Cell weighing system.

- Automatic internal adjustment in the case of a change in temperature > 2° C and time-controlled every 4 hours, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid controlled through the display
- Stainless steel weighing plate Ø 91 mm.

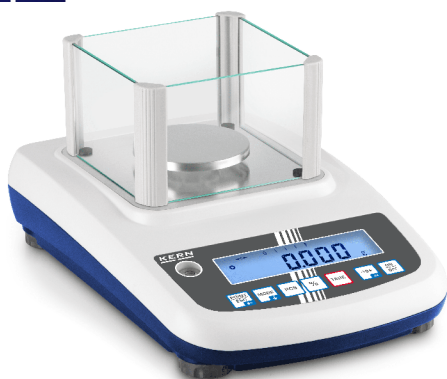
Weighing capacity max.	320 g
Readability	0.1 mg
Repeatability	0.2 mg
Linearity	0.3 mg
Other weighing units	ct

Screen, digits height	14 mm
Minimum piece weight (counting)	10 mg

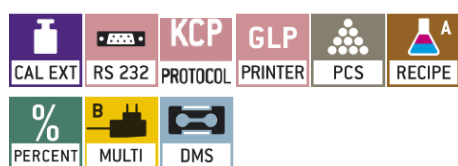
Adapters included CH EURO UK US

Option Verification	965-201
Option DAkkS Certificate	963-101

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200 g (1 mg)



OPTION

MSA	Model	Voltage	Size	Kg
42.174	PFB 200-3	100 - 240 V 50/60 Hz	210 x 315 x 90 mm	2.340

Quick-display precision balance with user-friendly concept of operation.

- Easy to use: all primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display : a bar lights up to show how much of the weighing range is still available
- Standard draught shield
- Stainless steel weighing plate Ø 80 mm.

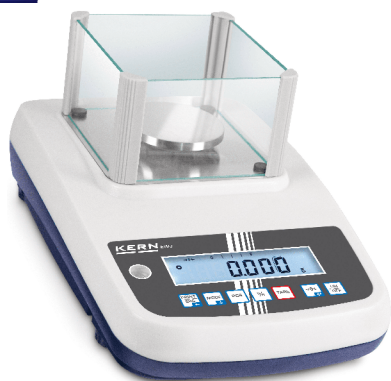
Weighing capacity max.	200 g
Readability	1 mg
Repeatability	2 mg
Linearity	5 mg
Recommended adjusting weight	200 g (F1)
Other weighing units	bat - ct - dot - dwt - lb - mo - N - oz - ozt - tl (CN) - tl (HK) - tl (TW)

Screen, digits height	15 mm
Minimum piece weight (counting)	20 mg

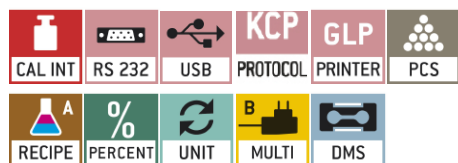
Adapters included	CH EURO UK US
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Option Verification	-
Option DAkKS Certificate	963-127

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300 g (1 mg)



OPTION

MSA	Model	Voltage	Size	Kg
42.340	EWJ 300-3	100 - 240 V 50/60 Hz	220 x 315 x 90 mm	3.800

High-quality precision balance with automatic internal adjustment.

- Easy to use : all primary functions have their own key on the keypad
- Automatic internal adjustment time-controlled every 2 hours. Guarantees high degree of accuracy and makes the balance independent of its location
- Capacity display : a bar lights up to show how much of the weighing range is still available
- Standard draught shield
- Stainless steel weighing plate Ø 80 mm.

Weighing capacity max.	300 g
Readability	1 mg
Repeatability	2 mg
Linearity	5 mg
Recommended adjusting weight	300 g (F1)
Other weighing units	ct - dwt - lb - mo - oz - ozt - tl (HK) - tl (SG, MY) - tl (TW)

Screen, digits height	16.5 mm
Minimum piece weight (counting)	20 mg

Adapters included	CH EURO UK US
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Option Verification	-
Option DAkKS Certificate	963-127

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620 g (1 mg)



OPTION



FACTORY

MSA	Model	Voltage	Size	Kg
42.341	PNJ 600-3M	220 - 240 V 50 Hz	196 x 293 x 266 mm	5.570

Precision balance with robust tuning fork measuring system.

- Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- Capacity display : a bar lights up to show how much of the weighing range is still available
- Precise counting : the automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size, practical for small spaces
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Dimensions plateau en acier inoxydable Ø 140 mm.

Weighing capacity max.	620 g
Readability	1 mg
Repeatability	1 mg
Linearity	4 mg
Other weighing units	ct - dwt - lb - mo - oz - ozt - tl (HK) - tl (SG, MY) - tl (TW) - tol
Screen, digits height	16.5 mm
Minimum piece weight (counting)	10 mg
Adapters included	CH EURO UK US
Option Verification	965-216
Option DAkKS Certificate	963-127

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620 g (1mg)



OPTION

MSA	Model	Voltage	Size	Kg
42.332	EW 620-3NM	220 - 240 V 50 Hz	182 x 235 x 75 mm	2.960

Precision balance with robust tuning fork measuring system.

- Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- GLP/ISO record keeping of weight values
- Totalising of pieces when counting
- Draught shield standard
- Stainless steel weighing plate Ø 118 mm.

Weighing capacity max.	620 g
Readability	1 mg
Repeatability	1 mg
Linearity	3 mg
Recommended adjusting weight	500 g (E2)
Other weighing units	ct dwt lb mo oz ozt tl (HK) tl (SG, MY) tl (TW) tol
Screen, digits height	17 mm
Minimum piece weight (counting)	10 mg
Adapters included	CH EURO
Option Verification	-
Option DAkKS Certificate	963-127

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500 g (10 mg)

DAkkS
+3 DAYS

OPTION

MSA	Model	Size	Kg
42.343	EHA 500-2	210 x 165 x 65 mm	0.720

Compact all-round balance with robust stainless steel weighing plate for use in industry and teaching.

- Large, shock proof weighing plate made from stainless steel, hygienic and easy to clean
- Ergonomically optimised keypad
- Simple and convenient 5-key operation
- Adjusting external program CAL for quick setting of the balance accuracy
- Stainless steel weighing plate Ø 105 mm.

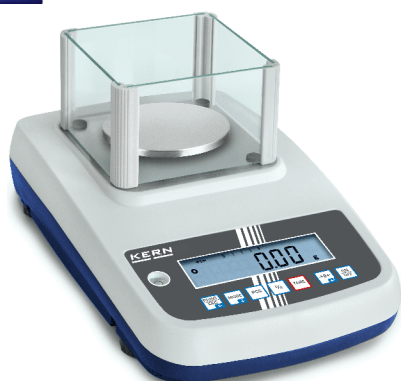
Weighing capacity max.	500 g
Readability	10 mg
Repeatability	30 mg
Linearity	30 mg
Recommended adjusting weight	500 g (F2)
Other weighing units	ct - dwt - gn - oz

Screen, digits height	22 mm
Minimum piece weight (counting)	100 mg

Adapters included CH EURO UK

Option Verification	-
Option DAkkS Certificate	963-127

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600 g (10 mg)

DAkkS
+3 DAYS

OPTION

M
+3 DAYS

FACTORY

MSA	Model	Voltage	Size	Kg
42.342	EWJ 600-2M	110 - 240 V 50/60 Hz	220 x 315 x 90 mm	3.500

High-quality precision balance with automatic internal adjustment.

- Easy to use : all primary functions have their own key on the keypad
- Automatic internal adjustment time-controlled every 2 hours. Guarantees high degree of accuracy and makes the balance independent of its location
- Capacity display : a bar lights up to show how much of the weighing range is still available
- Standard draught shield
- Stainless steel weighing plate Ø 120 mm.

Weighing capacity max.	600 g
Readability	10 mg
Repeatability	10 mg
Linearity	30 mg
Recommended adjusting weight	600 g (F1)
Other weighing units	-

Screen, digits height	16.5 mm
Minimum piece weight (counting)	200 mg

Adapters included CH EURO UK US

Option Verification	965-216
Option DAkkS Certificate	963-127

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1000 g (10 mg)



OPTION

MSA	Model	Power	Size	Kg
42.141	EMB 1000-2	1 battery 9 V	170 x 244 x 52 mm	1.300

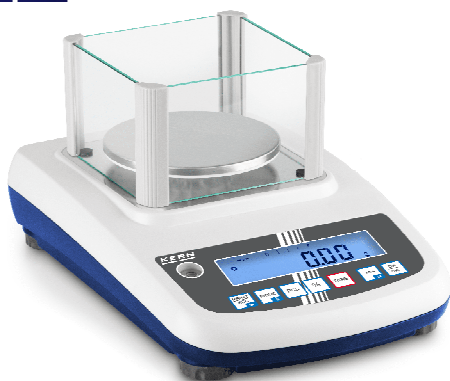
Entry-level laboratory balance with tremendous weighing performance.

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- Particularly flat design
- Ready for use : batteries included
- Size of the removable plastic weighing plate Ø 150 mm.

Delivered with 1 hook for weighing of suspended loads.

Weighing capacity max.	1000 g
Readability	10 mg
Repeatability	10 mg
Linearity	50 mg
Recommended adjusting weight	1 Kg (E1)
Other weighing units	dwt - oz - ozt
Screen, digits height	15 mm
Option Verification	-
Option DAkkS Certificate	963-127

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1200 g (10 mg)



OPTION

MSA	Model	Voltage	Size	Kg
42.137	PFB 1200-2	100 - 240 V 50/60 Hz	210 x 315 x 90 mm	2.370

Quick-displaying precision balance with user-friendly operation modes.

- Easy to use : all primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display : a bar lights up to show how much of the weighing range is still available
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing results
- Standard draught shield, weighing space 158 x 143 x 64 mm
- Stainless steel weighing plate Ø 120 mm.

Weighing capacity max.	1200 g
Readability	10 mg
Repeatability	10 mg
Linearity	30 mg
Recommended adjusting weight	1 Kg (F1)
Other weighing units	bat - ct - dot - dwt - lb - mo - N - oz - ozt - tl (CN) - tl (HK) - tl (TW)
Screen, digits height	15 mm
Minimum piece weight (counting)	200 mg
Adapters included	CH EURO UK US
Option Verification	-
Option DAkkS Certificate	963-127

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1000 g (100 mg)

DAkKS
+3 DAYS

OPTION

MSA	Model	Voltage	Size	Kg
42.344	EHA 1000-1	110 - 240 V	225 x 160 x 50 mm	0.750

Compact all-round balance with robust stainless steel weighing plate for use in industry and teaching.

- Large, shock proof weighing plate made from stainless steel, hygienic and easy to clean
- Ergonomically optimised keypad
- Simple and convenient 5-key operation
- Adjusting external program CAL for quick setting of the balance accuracy
- Stainless steel weighing plate Ø 105 mm.

Weighing capacity max.	1000 g
Readability	100 mg
Repeatability	300 mg
Linearity	300 mg
Recommended adjusting weight	1 Kg (M1)
Other weighing units	ct - dwt - gn - oz

Screen, digits height	22 mm
Minimum piece weight (counting)	1 g

Adapters included CH EURO UK

Option Verification	-
Option DAkKS Certificate	963-127

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2500 g (10 mg)

DAkKS
+3 DAYS

OPTION

MSA	Model	Voltage	Size	Kg
42.185	PCB 2500-2	100 - 240 V 50/60 Hz	166 x 250 x 80 mm	1.800

Compact laboratory balance.

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paperweight g/m², etc.
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Plus/minus weighing procedures
- Stainless steel weighing plate, size 130 x 130 mm.

Weighing capacity max.	2500 g
Readability	10 mg
Repeatability	10 mg
Linearity	50 mg
Recommended adjusting weight	2 Kg (F1)
Other weighing units	ct - dwt - ffa - lb - mo - oz - ozt - tl (HK) - tl (SG, MY) - tl (TW) - to

Screen, digits height	21 mm
Minimum piece weight (counting)	200 mg

Adapters included CH EURO UK US

Option Verification	-
Option DAkKS Certificate	963-127

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6 Kg (1 g)



OPTION

MSA	Model	Voltage	Size	Kg
42.160	440-53N	100 - 240 V 50/60 Hz	165 x 230 x 80 mm	1.600

Compact laboratory scale.

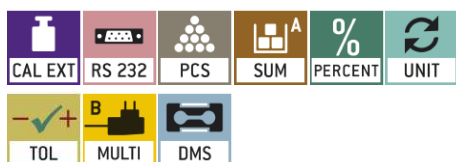
- Compact size, practical for small spaces
- Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value.
- Stainless steel weighing plate, size 150 x 170 mm.

Weighing capacity max.	6 Kg
Readability	1 g
Repeatability	1 g
Linearity	2 g
Recommended adjusting weight	5 Kg (M2)
Other weighing units	dwt - lb - mo - oz - ozt - tl (HK) - tl (TW) - tol
Screen, digits height	15 mm
Minimum piece weight (counting)	20 g
Adapters included	CH EURO UK US
Option Verification	-
Option DAkkS Certificate	963-128

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12 Kg (100 mg)



OPTION



MSA	Model	Voltage	Size	Kg
42.186	GAB 12K0.1N	110 - 230 V	320 x 330 x 125 mm	4.200

Check-weighing and portioning balance.

- Compact size, practical for small spaces
- High mobility : thanks to battery operation (optional)
- Weighing with tolerance range (Check-weighing) : input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- Totalising of pieces when counting
- Stainless steel weighing plate, size 294 x 225 mm.

Weighing capacity max.	12 Kg
Readability	100 mg
Repeatability	100 mg
Linearity	300 mg
Recommended adjusting weight	12 Kg (F2)
Other weighing units	-
Screen, digits height	24 mm
Minimum piece weight (counting)	1 g
Adapters included	CH EURO UK
Option Verification	-
Option DAkkS Certificate	963-128

TANITA® and TANGENT® digital pocket scales easy to use with LCD screen for clear reading.
Tare function, high precision, calibration possible and display for low battery.
All the scales are delivered with batteries, user's manual and synthetic pouch.



MSA		Model	Colour	Size	Kg
42.102	(1)	Tangent KP-104	Black	60 x 135 x 16 mm	0.140
42.103	(2)	Tangent KP-104	Silver	60 x 135 x 16 mm	0.140

TANGENT® pocket scale.

Weighing unit	Capacity	Graduation
Gram (g)	(1) 200 (2) 300	0.1 0.1
Ounce (oz)	(1) 7.055 (2) 10.58	0.005 0.005
Troy Ounce (ozt)	(1) 6.43 (2) 9.645	0.005 0.005
Penny weight (dwt)	(1) 126.6 (2) 192.9	0.1 0.1



MSA	Model	Colour	Size	Kg
42.110	1479V	Black	155 x 75 x 15 mm	0.203

TANITA® pocket scale.

Weighing unit	Capacity	Graduation
Gram (g)	120	0.1

KERN



MSA	Size	Kg
42.316	123 x 72 x 15 mm	0.016

Precious stones plate in aluminium with practical spout.

NOTES