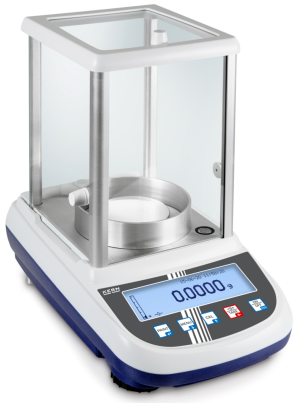
KERN **ALJ 500-4A**

Analytical balance with high weighing capacity, graphic display and convenient recipe function



Date of creation: 24.10.2026

Category

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

Measuring System

Weighing system	Force compensation
Weighing capacity [Max]	510 g
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Readability [d]	0,0001 g
Automatic adjustment - Standard temperature deviation	1,2 °C
Automatic adjustment - Standard time interval	3 h
Reproducibility	0,0002 g
Linearity	± 0,0004 g
Resolution	5.100.000
Adjustment options	Internal calibration (automatic)
Stabilization time	4 s
Eccentric loading at 1/3 [Max]	0,0003 g
Weighing capacity [Max] (ct)	2550 ct
Construction type of the scale	Single-range balance
Units	g mg gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg
Default unit	g
Readability carat [d] (ct)	0,001 ct
Warm-up time	8 h
typical reproducibility	0,00008 g
typical USP Minimum weight of sample	160 mg

Display

Display type	LCD graphic
Display backlight	✓
Display screen size	132×38 mm
Display digit height - smallest digit	4 mm
Display digit height	15 mm
Languages of the user interface	English

Construction

Dimension housing (W×D×H)	210×340×330 mm
Dimensions completely mounted (W×D×H)	210×340×330 mm
Dimensions rectangular draught shield - inner (W×D×H)	160×170×225 mm
Dimensions rectangular draught shield - outer (W×D×H)	172×185×245 mm
Dimensions weighing surface (Ø)	80 mm
Dimensions weighing surface	80 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Material draught shield	glass
Material display housing	plastic
Level indicator	✓
Levelling feet adjustable	✓

Functions

Density determination	✓
Dispensing function	✓
PreTare function	✓
Percentage determination	✓

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Standby function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Capacity - Display	✓
Auto-off interval(s) in mains power mode	off 5 min 2 min 15 min
Tare function	manual (multi)
Underfloor weighing	None
Counting resolution (laboratory conditions)	510.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	1 mg
Reference quantity	10, 25, 50, 100, input
Recipe/summing level	Rez B (Net-total, memory with plain text designations + setpoint, also for printout)
Recipe weighing - number of database entries	99
Recipe weighing - number of ingredients per database entry	20
Number of keys for operation	6
Smallest piece weight when piece counting - normal conditions	10 mg
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	RS-232 standard

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Input voltage power supply / power [Max]	country dependent
Power supply cable removable	removable
Input voltage device / power [Max]	24 V 1 A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 10,5 mm
Battery / accumulator type	Li-Metal
Battery capacity	210 mAh
Battery voltage	3 V
Battery – Number of cells	1
Battery – Individual weight	2,9 g
Battery – Total weight	2,9 g
Battery capacity (Wh)	0,63 Wh
Battery – Lithium content	66 mg

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Humity of environment [Max]	80 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	40 °C

Services (optional)

Article number for DAkkS calibration	963-101
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	520×420×535 mm
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	9 kg
Shipping weight	23,4 kg
Shipping volume weight	23,4 kg

Product information

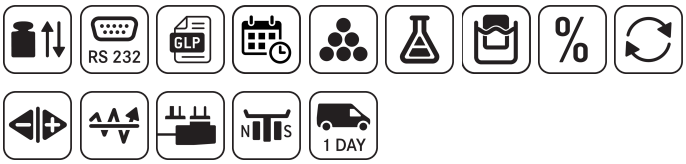
GTIN/EAN number	4045761242975
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

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Pictograms

STANDARD



OPTION

