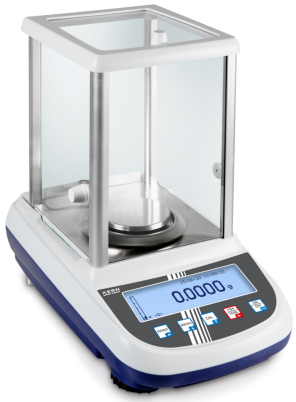
KERN **ALJ 160-4A**

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



Date of creation: 22.06.2026

Category

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

Measuring System

Weighing system	Force compensation
Weighing capacity [Max]	160 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 mg
Readability [d]	0,0001 g
Automatic adjustment - Standard temperature deviation	1,2 °C
Automatic adjustment - Standard time interval	3 h
Reproducibility	0,0001 g
Linearity	± 0,0003 g
Resolution	1.600.000
Adjustment options	Internal calibration (automatic)
Recommended adjusting weight	150 g (E2)
Possible calibration points	150 g
Stabilization time	4 s
Eccentric loading at 1/3 [Max]	0,0003 g
Weighing capacity [Max] (ct)	800 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

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	✓
Transport safety lock - bolt torque	0,1 Nm

Functions

PreTare function	✓
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

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Percentage determination	✓
Dispensing function	✓
Density determination	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual
Underfloor weighing	None
Function for averaging under unstable weighing conditions	✓
Capacity - Display	✓
Standby function	✓
Counting function	✓
Counting resolution (laboratory conditions)	160.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	10, 25, 50, 100, input
Auto-off interval(s) in mains power mode	off 5 min 2 min 15 min
Tare function	manual (multi)
Number of keys for operation	6

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

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

Approval

CE mark	✓

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	4045761242906
Trade number	90160010
REACH classification	no prohibited substances

Pictograms

STANDARD

OPTION