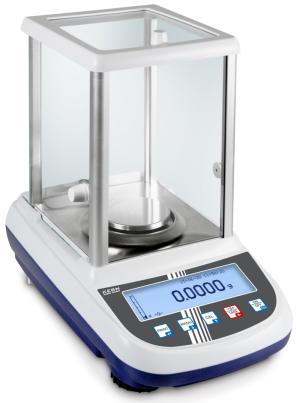
KERN **ALS 160-4A**

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	ALS-A

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
Reproducibility	0,0001 g
Linearity	± 0,0003 g
Resolution	1.600.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	150 g (E2)
Possible calibration points	100 g; 150 g
Stabilization time	4 s
Eccentric loading at 1/3 [Max]	0,0004 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
Warm-up time	8 h
typical reproducibility	0,00009 g
typical USP Minimum weight of sample	180 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 draught shield	glass
Level indicator	✓
Levelling feet adjustable	✓
Transport safety lock - bolt torque	0,1 Nm

Functions

Density determination	✓
PreTare function	✓
Percentage determination	✓
Standby function	✓
Function for averaging under unstable weighing conditions	✓

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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)	160.000
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
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 [Max]	40 °C

Services (optional)

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

Packing & Shipping

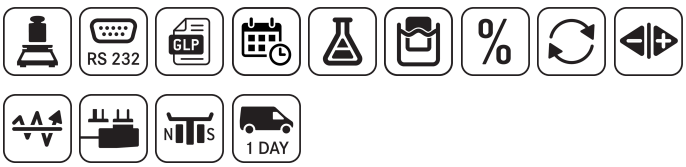
Delivery time	1 d
Dimensions packaging (W×D×H)	520×420×535 mm
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	9 kg
Shipping weight	23,4 kg
Shipping volume weight	23,4 kg

Product information

GTIN/EAN number	4045761243033
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

