

KERN ALJ 160-4AM



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



Category

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

Measuring System

Conformity assessment possible	✓
Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	160 g
Weighing capacity [Max] (ct)	800 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	1.600.000
Linearity	± 0,0003 g
Reproducibility	0,0001 g
Default unit	g

Units

Units (if device is conformity assessed)

Minimum weight [Min] 0,01 g

g
mg
gn
dwt
tl (Tw)
tl (HK)
ozt
tl (Singap, Malays)
ct
mo
lb
oz

USP Minimum weight of sample (k = 2, U = 0.1%)	200 mg
Minimum weight [Min] (ct)	0,1 ct
Adjustment options	Internal calibration (automatic)
Automatic adjustment - Standard temperature deviation	1,2 °C
Automatic adjustment - Standard time interval	3 h
Stabilization time	4 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0003 g

Approval

CE mark	✓
Pattern approval for conformity assessment	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct
Conformity assessment possible ex works	✓

Display

Display type	LCD graphic
Display screen size	132×38 mm
Display backlight	✓
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 rectangular draught shield - inner (W×D×H)	160×170×225 mm
Dimensions rectangular draught shield - outer (W×D×H)	172×185×245 mm
Dimensions completely mounted (W×D×H)	210×340×330 mm
Material display housing	Plastics
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	80 mm
Transport safety lock - bolt torque	0,1 Nm
Levelling feet adjustable	✓

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Functions

Number of keys for operation	6
	off
Auto-off interval(s) in mains power mode	5 min 2 min 15 min
Capacity display	✓
PreTare function	✓
Tare function	manual (multi)
Density determination	✓
Dispensing function	✓
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual
Function for averaging under unstable weighing conditions	✓
Standby 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
Underfloor weighing	None
Interfaces	RS-232 standard

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	10, 25, 50, 100, n (any number of pieces)
Counting resolution (laboratory conditions)	160.000

Power Supply

Input voltage power supply / power [Max]	country dependent
Input voltage device / power [Max]	24 V 1 A
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit

	EURO
Plug-in power supply / adapter for countries - included with the delivery	AUS UK US CH
	EURO
Plug-in power supply / adapter for countries - optional	UK US CH

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×515×615 mm
Net weight	6,5 kg
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	9 kg
Shipping weight	25,3 kg

Services (optional)

Article number for conformity assessment	965-201
Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

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Pictograms

STANDARD



OPTION



FACTORY

