

# KERN ALJ 310-4A

# KERN

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



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

Maximum creep (15 minutes) 1 mg

Maximum creep (30 minutes) 2 mg

## Approval

CE mark ✓

## 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 ✓

## Functions

Number of keys for operation 6

Auto-off interval(s) in mains power mode off

Auto-off interval(s) in mains power mode 5 min

Auto-off interval(s) in mains power mode 2 min

Auto-off interval(s) in mains power mode 15 min

Capacity - Display ✓

PreTare function ✓

Tare function manual (multi)

Density determination ✓

## Category

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

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Force compensation
Weighing capacity [Max]	310 g
Weighing capacity [Max] (ct)	1550 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	3.100.000
Linearity	± 0,0003 g
Reproducibility	0,0001 g
Default unit	g

Units	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

Adjustment options Internal calibration (automatic)

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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)	310.000

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
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

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

Pictograms								
STANDARD								

OPTION	