

KERN PLJ 420-3F

KERN

Range of precision balances with enormous weighing capacities – ideal for heavy tare containers or large samples



Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	PLJ

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	420 g
Weighing capacity [Max] (ct)	2100 ct
Readability [d]	0,001 g
Reproducibility	0,001 g
Linearity	± 0,003 g

USP Minimum weight of sample (k = 2, U = 0.1%)

2 g

Resolution 420.000

Tare range 420 g

Adjustment options Internal calibration (automatic)

Automatic adjustment - Standard temperature deviation 1,2 °C

Stabilization time 3 s

Warm-up time 4 h

Eccentric loading at 1/3 [Max] 0,004 g

Maximum creep (15 minutes) 10 mg

Maximum creep (30 minutes) 20 mg

Default unit g

Units

g
mg
gn
dwt
tl (Tw)

tl (HK)
ozt
tl (Singap, Malays)
ct
mo
lb
oz

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)	210×340×120 mm
Dimensions completely mounted (W×D×H)	210×340×160 mm
Dimensions ring-shaped draught shield - inner (Ø×H)	150×60 mm
Dimensions ring-shaped draught shield - outer (Ø×H)	160×70 mm
Dimensions weighing surface (Ø)	110 mm
Dimensions weighing surface	110 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Material draught shield	glass
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
Percentage determination	✓
Density determination	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual

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Underfloor weighing	None
Function for averaging under unstable weighing conditions	✓
Time display	✓
Capacity - Display	✓
Standby function	✓
Counting function	✓
Counting resolution (laboratory conditions)	84.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	5 mg
Smallest piece weight when piece counting - normal conditions	50 mg
Reference quantity	10, 25, 50, 100, n (any number of pieces)
	off
Auto-off interval(s) in mains power mode	5 min 2 min 15 min
Tare function	manual (multi)
Number of keys for operation	6

Interface

Interfaces	RS-232 standard
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Power Supply

Supplied power supply	Power supply unit
Plug-in 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]	100 V - 240 V, 50 / 60 Hz
Input voltage device / power [Max]	9 V DC, 1000 mA

Environmental conditions

Ambient temperature [Min]	15 °C
Ambient temperature [Max]	35 °C
Humidity of environment [Max]	80 %
Storage temperature [Max]	40 °C

Approval

CE mark	✓
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Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	500×360×420 mm
Shipping method	Parcel service
Net weight approx.	5,0 kg
Gross weight approx.	8 kg
Shipping weight	15,1 kg

Pictograms

STANDARD



OPTION

