

KERN PLS 4200-2F



High-quality precision scale with comfortable graphic display and enormous weighing range



Date of creation: 27.07.2026

Category

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

Measuring System

Weighing system	Strain gauge
Weighing capacity [Max]	4200 g
USP Minimum weight of sample (k = 2, U = 0.1%)	20 g
Readability [d]	0,01 g
Reproducibility	0,01 g
Linearity	± 0,04 g
Resolution	420.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	4 kg (E2)
Possible calibration points	4 kg
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,03 g
Weighing capacity [Max] (ct)	2 1000 ct
Construction type of the scale	Single-range balance
Units	g gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays)

	ct mo lb oz
Maximum creep (15 minutes)	100 mg
Maximum creep (30 minutes)	200 mg
Default unit	g
Readability carat [d] (ct)	0,1 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)	210×340×120 mm
Dimensions completely mounted (W×D×H)	210×340×120 mm
Dimensions weighing surface (Ø)	160 mm
Dimensions weighing surface	160 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Level indicator	✓
Levelling feet adjustable	✓

Functions

Sum memory 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
Underfloor weighing	Eye (included in delivery)
Function for averaging under unstable weighing conditions	✓

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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	50 mg
Smallest piece weight when piece counting - normal conditions	500 mg
Reference quantity	10, 25, 50, 100, input
	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
Power supply type	Power adapter
	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
Input voltage power supply / power [Max]	100 V - 240 V, 50 / 60 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	9 V DC, 1000 mA
	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 10,5 mm
Power socket for mains adapter	

Environmental conditions

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

Storage temperature [Max]	40 °C
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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)	450×320×300 mm
Shipping method	Parcel service
Net weight approx.	3,2 kg
Gross weight approx.	4,4 kg
Shipping weight	8,6 kg
Shipping volume weight	8,6 kg

Product information

GTIN/EAN number	4045761243323
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

