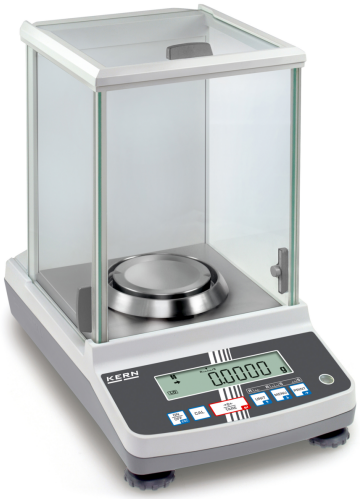
KERN **ACS 80-4**

The bestseller in analytical balances, with high-quality single-cell weighing system



Date of creation: 24.10.2026

Category

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

Measuring System

Weighing system	Single-Cell
Weighing capacity [Max]	82 g
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Readability [d]	0,0001 g
Reproducibility	0,0002 g
Linearity	± 0,0003 g
Resolution	820.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	80 g (E2)
Possible calibration points	50 g
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,0005 g
Construction type of the scale	Single-range balance
Units	g mg gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct oz ffa bat m PCS mom
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg
Default unit	g
Warm-up time	4 h
typical reproducibility	0,00007 g
typical USP Minimum weight of sample	140 mg

Display

Display type	LCD
Display type	LCD
Display backlight	no
Display screen size	115×32 mm
Display digit height	14 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	213×333×338 mm
Dimensions rectangular draught shield - inner (W×D×H)	174×162×227 mm
Dimensions rectangular draught shield - outer (W×D×H)	201×220×256 mm
Dimensions weighing surface (Ø)	91 mm
Dimensions weighing surface	91 mm
Material housing	plastic
Material weighing plate	stainless steel
Material draught shield	glass
Material display housing	plastic
Level indicator	✓
Levelling feet adjustable	✓

Functions

Density determination	✓
Percentage determination	✓
Standby function	✓
Tolerance weighing	✓
Counting function	✓
Auto-off interval(s) in mains power mode	0 - 99 min
Tare function	manual (multi)

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Counting resolution (laboratory conditions)	82.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	1 mg
Reference quantity	5, 10, 20, 50, 100
Recipe/summing level	Rez A (Net total)
Number of keys for operation	6
Smallest piece weight when piece counting - normal conditions	10 mg
Tolerance weighing - type of signal	visual

Interface

Interfaces	RS-232 standard USB-Device

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]	110 V - 230 V AC
Power supply cable removable	removable
Input voltage device / power [Max]	12 V, 1 A
Power socket for mains adapter	Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humity of environment [Min]	20 %
Humity of environment [Max]	85 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °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)	390×565×520 mm
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	9 kg
Shipping weight	22,9 kg
Shipping volume weight	22,9 kg

Product information

GTIN/EAN number	4045761235687
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

