

KERN FES 33K-4

High-capacity precision balance with password-protected user administration



Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,3 g
Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g

Approval

CE mark	✓
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Display

Display type	LCD
Display type	LCD
Display screen size	172×58 mm
Display backlight	✓
Display digit height - smallest digit	8,5 mm
Display digit height	16,5 mm
Languages of the user interface	English

Construction

Dimension display device (W×D×H)	290×180×80 mm
Dimension housing (W×D×H)	350×520×170 mm
Dimensions weighing platform (W×D×H)	400×350×150 mm
Material display housing	stainless steel
Material housing	stainless steel, cast iron
Material weighing plate	stainless steel
Material platform	Stainless steel
Dimensions weighing surface (W×D)	350×400 mm
Display device cable length	1 m
Levelling feet adjustable	✓
Wall mount	✓

Functions

Number of keys for operation	9
Capacity - Display	✓
PreTare function	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	acoustically visual
Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Underfloor weighing	Hook (optional)

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	33000 g
Readability [d]	0,1 g
Resolution	330.000
Linearity	± 0,3 g
Reproducibility	0,1 g
Tare range	33000 g
Default unit	g

Units	kg
	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	tl (Singap, Malays)
	ct
	lb
	oz
tol	
mom	

USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
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Adjustment options	Adjusting with external weight
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Recommended adjusting weight	20 kg (E2); 10 kg (E2)
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Stabilization time	3 s
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Interfaces	Digital I/O (optional, factory) RS-232 standard - 2x
IP protection - complete device	IP65
IP protection - display	IP65
IP protection - load cell	IP65
IP protection - platform	IP65

Counting	
Smallest piece weight when piece counting - laboratory conditions	100 mg
Smallest piece weight when piece counting - normal conditions	1 g
Reference quantity	5, 10, 30, 50, 100, n (any number of pieces)
Counting resolution (laboratory conditions)	330.000

Power Supply	
Input voltage power supply / power [Max]	100 V - 240 V AC, 50 / 60 Hz
Input voltage device / power [Max]	12 V, 1.0 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

Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
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Rechargeable battery optional	Rchrg. battery optional (factory)
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight off	10 h

Environmental conditions	
Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	490×830×430 mm
Net weight	18 kg

Shipping method	Parcel service
Net weight approx.	18 kg
Gross weight approx.	24 kg
Shipping weight	35 kg

Services (optional)	
Article number for DAkkS calibration	963-128
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



FACTORY

