KERN **FES 33K-4**

High-capacity precision balance with password-protected user administration



Date of creation: 23.10.2026

Category

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

Measuring System

Weighing system	Tuning fork
Weighing capacity [Max]	33000 g
USP Minimum weight of sample (k = 2, U = 0.1%)	200 g
Readability [d]	0,1 g
Reproducibility	0,1 g
Linearity	± 0,3 g
Resolution	330.000
Tare range	33000 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	20 kg (F2); 10 kg (F2)
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,3 g
Construction type of the scale	Single-range balance
Units	kg g dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct lb oz tol mom
Maximum creep (15 minutes)	1 g
Maximum creep (30 minutes)	2 g
Default unit	g
Warm-up time	120 min

Display

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

Construction

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

Functions

IP protection - complete device	IP65
IP protection - display	IP65
IP protection - platform	IP65
IP protection - load cell	IP65
PreTare function	✓
Percentage determination	✓
Standby function	✓
Sum memory function	✓
Tolerance weighing	✓
Counting function	✓

KERN **FES 33K-4**

High-capacity precision balance with password-protected user administration

Capacity - Display	✓
Tare function	manual (multi)
Underfloor weighing	Hook (optional)
Counting resolution (laboratory conditions)	330.000
Smallest piece weight when piece counting - laboratory conditions	100 mg
Reference quantity	5, 10, 30, 50, 100, n (any number of pieces)
Recipe/summing level	Rez A (Net total)
Number of keys for operation	9
Smallest piece weight when piece counting - normal conditions	1 g
Tolerance weighing - type of signal	acoustically visual

Interface

Interfaces	Digital I/O (optional, factory) RS-232 standard - 2x

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
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC, 50 / 60 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	12 V, 1.0 A
Power socket for mains adapter	Hollow plug, inside minus, Ø outside 4,75 mm, Ø inside 1,7 mm, long 9,5 mm
Battery capacity	7 mAh
Battery voltage	3 V
Battery – Number of cells	1
Battery – Individual weight	6,6 g
Battery – Total weight	6,6 g
Battery – Construction	Individual cells
Battery capacity (Wh)	21 Wh
Battery – Lithium content	3 mg
Battery – Tests passed UN 38.3	✓
Rechargeable battery operating time - backlight off	10 h
Rechargeable battery charging time	12 h
Rechargeable battery optional	Rchrg. battery optional (factory)

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Humity of environment [Max]	80 %

Services (optional)

Article number for DAkkS calibration	963-128
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	490×830×430 mm
Shipping method	Parcel service
Net weight approx.	18 kg
Gross weight approx.	24 kg
Shipping weight	35 kg
Shipping volume weight	35 kg

Product information

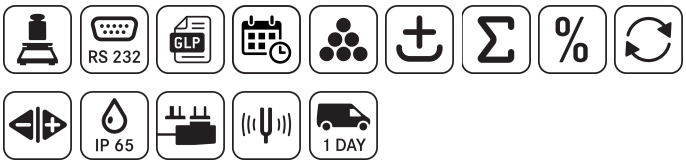
GTIN/EAN number	4045761311336
Trade number	84238220
Warranty Time	36 mon
REACH classification	no prohibited substances

KERN **FES 33K-4**

High-capacity precision balance with password-protected user administration

Pictograms

STANDARD



OPTION



FACTORY

