# KERN **FPB 6K-3M**

Robust bench scale with IP68/IP69K protection and checkweighing display, with optional verification



**Date of creation: 15.11.2026**

| Category | |
|---|---|
| Brand | KERN |
| Product category | Industrial scale |
| Product group | Bench scale |
| Product family | FPB |

| Measuring System | |
|---|---|
| Weighing system | Strain gauge |
| Number of weighing ranges | 1 |
| Weighing capacity [Max] | 6000 g |
| Readability [d] | 2 g |
| Reproducibility | 2 g |
| Linearity | ± 6 g |
| Minimum weight [Min] (verifiable) | 40 g |
| Resolution | 3.000 |
| Tare range | 6000 g |
| Adjustment options | Adjusting with external weight |
| Recommended adjusting weight | 6 kg (M1) |
| Possible calibration points | 6 kg |
| Stabilization time | 2 s |
| Eccentric loading at 1/3 [Max] | 10 g |
| Conformity assessment possible | ✓ |
| Construction type of the scale | Single-range balance |
| Units | kg<br>g<br>PCS |
| Units (if device is conformity assessed) | kg<br>g |
| Load cell connection | 4-wire |
| Default unit | g |
| Loadcell type | Tscale BX6 |
| Warm-up time | 10 min |

| Display | |
|---|---|
| Display type | LCD |
| Display backlight | ✓ |
| Display screen size | 100×35 mm |
| Display segments | 7 |
| Display digit height | 25 mm |
| Languages of the user interface | English |

| Construction | |
|---|---|
| Dimension housing (W×D×H) | 288×233×102 mm |
| Dimensions completely mounted (W×D×H) | 288×233×102 mm |
| Dimensions weighing surface (W×D) | 190×230 mm |
| Dimensions weighing surface | 190×230 mm |
| Dimensions weighing platform (W×D×H) | 230×190×20 mm |
| Material housing | stainless steel, plastic |
| Material weighing plate | stainless steel |
| Material load cell(s) | aluminium |
| Level indicator | ✓ |
| Levelling feet adjustable | ✓ |

| Functions | |
|---|---|
| IP protection - complete device | IP68<br>IP69K |
| Tolerance weighing | ✓ |
| Counting function | ✓ |
| Auto-off interval(s) in battery mode/rechargeable battery mode | selectable |
| Auto-off interval(s) in mains power mode | selectable |
| Tare function | manual (multi) |
| Counting resolution (laboratory conditions) | 3.000 |
| Smallest piece weight when piece counting - laboratory conditions | 2 g |
| Reference quantity | 10, 20, 50, 100, 200 |
| Number of keys for operation | 4 |
| Smallest piece weight when piece counting - normal conditions | 20 g |
| Tolerance weighing - type of signal | visual |

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## Power Supply

| | |
|---|---|
| Supplied power supply | Accu & Power supply |
| Power supply type | USB including power supply |
| Plug-in power supply / adapter for countries - included with the delivery | EURO |
| Plug-in power supply / adapter for countries - optional | EURO |
| Input voltage power supply / power [Max] | 100 V - 240 V, 50 / 60 Hz |
| Power supply cable removable | removable |
| Input voltage device / power [Max] | 5 V, 1 A |
| Power socket for mains adapter | Hollow plug inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,4 mm |
| Battery / accumulator type | Li-Ion |
| Battery capacity | 4.000 mAh |
| Battery voltage | 3,7 V |
| Battery – Number of cells | 2 |
| Battery – Individual weight | 154 g |
| Battery – Total weight | 308 g |
| Battery – Construction | Inseparable connection of cells (pack) |
| Battery capacity (Wh) | 14,8 Wh |
| Battery – Tests passed UN 38.3 | ✓ |
| Rechargeable battery operating time - backlight on | 400 h |
| Rechargeable battery operating time - backlight off | 500 h |
| Rechargeable battery charging time | 4 h |
| Battery/Accu connected | not connected, enclosed |

## Environmental conditions

| | |
|---|---|
| Ambient temperature [Min] | -10 °C |
| Ambient temperature [Max] | 40 °C |
| Humity of environment [Min] | 5 % |
| Humity of environment [Max] | 85 % |
| Storage temperature [Min] | -10 °C |
| Storage temperature [Max] | 40 °C |

## Approval

| | |
|---|---|
| CE mark | ✓ |
| Conformity assessment possible ex works | ✓ |
| Accuracy classe | III |
| Verification scale interval [e] | 2 g |

## Services (optional)

| | |
|---|---|
| Article number for adjustment at the location of installation | 961-248 |
| Article number for conformity assessment | 965-228 |
| Article number for DAkkS calibration | 963-128 |
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

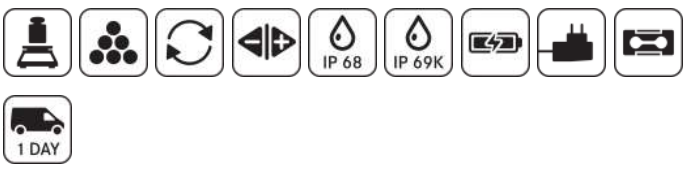
| | |
|---|---|
| Delivery time | 1 d |
| Dimensions packaging (W×D×H) | 340×295×165 mm |
| Shipping method | Parcel service |
| Net weight approx. | 2,2 kg |
| Gross weight approx. | 3,4 kg |
| Shipping weight | 3,3 kg |
| Shipping volume weight | 3,3 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761488526 |
| Trade number | 84238129 |
| Warranty Time | 24 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD




### OPTION




### FACTORY

