

# KERN FCB 30K1

Checkweighing and portioning scale with up to three interfaces

# KERN



## Category

|                  |                  |
|------------------|------------------|
| Brand            | KERN             |
| Product category | Industrial scale |
| Product group    | Bench scale      |
| Product family   | FCB              |

## Measuring System

|                         |              |
|-------------------------|--------------|
| Weighing system         | Strain gauge |
| Weighing capacity [Max] | 30 kg        |
| Readability [d]         | 0,001 kg     |
| Reproducibility         | 0,001 kg     |
| Linearity               | ± 0,003 kg   |
| Resolution              | 30.000       |

|                    |                                |
|--------------------|--------------------------------|
| Adjustment options | Adjusting with external weight |
|--------------------|--------------------------------|

|                              |                     |
|------------------------------|---------------------|
| Recommended adjusting weight | 30 kg (F2)          |
| Possible calibration points  | 10 kg; 20 kg; 30 kg |
| Stabilization time           | 2 s                 |

|                                |          |
|--------------------------------|----------|
| Warm-up time                   | 120 min  |
| Eccentric loading at 1/3 [Max] | 0,005 kg |

|                                |                      |
|--------------------------------|----------------------|
| Construction type of the scale | Single-range balance |
|--------------------------------|----------------------|

|       |     |
|-------|-----|
| Units | kg  |
|       | g   |
|       | gn  |
|       | dwt |
|       | ct  |
|       | lb  |
|       | oz  |
|       | ffa |
|       | PCS |
|       | %   |

|                            |     |
|----------------------------|-----|
| Maximum creep (15 minutes) | 4 g |
|----------------------------|-----|

|                            |     |
|----------------------------|-----|
| Maximum creep (30 minutes) | 8 g |
|----------------------------|-----|

|               |                                |
|---------------|--------------------------------|
| Default unit  | kg                             |
| Loadcell type | aluminium IP65 silicone-coated |

## Display

|                                 |                            |
|---------------------------------|----------------------------|
| Display type                    | LCD                        |
| Display backlight               | ✓                          |
| Display screen size             | 120×38 mm                  |
| Display digit height            | 25 mm                      |
| Languages of the user interface | English<br>Symbol language |

## Construction

|                                       |                 |
|---------------------------------------|-----------------|
| Dimension housing (W×D×H)             | 322×267×91 mm   |
| Dimensions completely mounted (W×D×H) | 325×270×105 mm  |
| Dimensions weighing surface (W×D)     | 252×225 mm      |
| Dimensions weighing surface           | 252×225 mm      |
| Material housing                      | plastic         |
| Material weighing plate               | stainless steel |
| Material display housing              | plastic         |
| Material load cell(s)                 | aluminium       |
| Level indicator                       | ✓               |
| Levelling feet adjustable             | ✓               |
| Transport safety lock - bolt torque   | 0,4 Nm          |

## Functions

|                                                                   |                            |
|-------------------------------------------------------------------|----------------------------|
| Recipe/summing level                                              | Sum A                      |
| Percentage determination                                          | ✓                          |
| Tolerance weighing                                                | ✓                          |
| Tolerance weighing - type of signal                               | acoustically<br>visual     |
| Underfloor weighing                                               | None                       |
| Function for averaging under unstable weighing conditions         | ✓                          |
| Counting function                                                 | ✓                          |
| Counting resolution (laboratory conditions)                       | 30.000                     |
| Counting reference weight can be entered                          | ✓                          |
| Smallest piece weight when piece counting - laboratory conditions | 1 g                        |
| Smallest piece weight when piece counting - normal conditions     | 10 g                       |
| Reference quantity                                                | 5, 10, 20, 50, free, Input |
| IP protection - complete device                                   | -                          |
| IP protection - display                                           | no IP protection           |
| IP protection - load cell                                         | IP65                       |

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|                                                                |                |
|----------------------------------------------------------------|----------------|
| Auto-off interval(s) in battery mode/rechargeable battery mode | 2 min          |
|                                                                | 1 min          |
|                                                                | 30 min         |
|                                                                | 60 min         |
|                                                                | 30 sec         |
| Tare function                                                  | manual (multi) |
| Number of keys for operation                                   | 6              |

## Interface

|            |                                 |
|------------|---------------------------------|
| Interfaces | RS-232 (optional)               |
|            | Ethernet (optional)             |
|            | Bluetooth BLE (v4.0) (optional) |
|            | USB-Device (optional)           |
|            | KUP                             |
|            | WiFi (optional)                 |

compatible with EasyTouch ✓

## 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              |
|                                                                           | UK                |
|                                                                           | US                |
|                                                                           | CH                |

|                                                         |      |
|---------------------------------------------------------|------|
| Plug-in power supply / adapter for countries - optional | EURO |
|                                                         | 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] | 5,9V, 1A |
|------------------------------------|----------|

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Power socket for mains adapter | Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 13 mm |
|                                |                                                                         |

|                            |        |
|----------------------------|--------|
| Battery / accumulator type | Li-Ion |
|----------------------------|--------|

|                        |      |
|------------------------|------|
| Battery operating time | 20 h |
|------------------------|------|

|                                                    |      |
|----------------------------------------------------|------|
| Rechargeable battery operating time - backlight on | 24 h |
|----------------------------------------------------|------|

|                                                     |      |
|-----------------------------------------------------|------|
| Rechargeable battery operating time - backlight off | 48 h |
|-----------------------------------------------------|------|

|                                    |     |
|------------------------------------|-----|
| Rechargeable battery charging time | 8 h |
|------------------------------------|-----|

|                               |                         |
|-------------------------------|-------------------------|
| Rechargeable battery optional | Rchrg. battery optional |
|-------------------------------|-------------------------|

## Environmental conditions

|                           |      |
|---------------------------|------|
| Ambient temperature [Min] | 0 °C |
|---------------------------|------|

|                           |       |
|---------------------------|-------|
| Ambient temperature [Max] | 40 °C |
|---------------------------|-------|

|                               |     |
|-------------------------------|-----|
| Humidity of environment [Min] | 0 % |
|-------------------------------|-----|

|                               |      |
|-------------------------------|------|
| Humidity of environment [Max] | 80 % |
|-------------------------------|------|

|                           |        |
|---------------------------|--------|
| Storage temperature [Min] | -20 °C |
|---------------------------|--------|

|                           |       |
|---------------------------|-------|
| Storage temperature [Max] | 60 °C |
|---------------------------|-------|

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## Services (optional)

|                                                               |         |
|---------------------------------------------------------------|---------|
| Article number for adjustment at the location of installation | 961-248 |
|---------------------------------------------------------------|---------|

|                                      |         |
|--------------------------------------|---------|
| 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) | 395×335×200 mm |
|------------------------------|----------------|

|                 |                |
|-----------------|----------------|
| Shipping method | Parcel service |
|-----------------|----------------|

|                    |        |
|--------------------|--------|
| Net weight approx. | 3,0 kg |
|--------------------|--------|

|                      |        |
|----------------------|--------|
| Gross weight approx. | 3,4 kg |
|----------------------|--------|

|                 |        |
|-----------------|--------|
| Shipping weight | 5,3 kg |
|-----------------|--------|

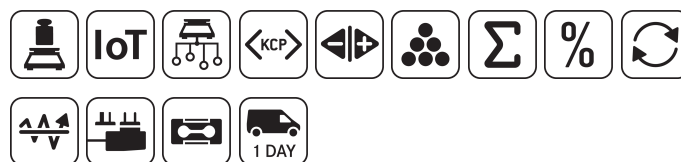
## Product information

|                 |               |
|-----------------|---------------|
| GTIN/EAN number | 4045761475519 |
|-----------------|---------------|

|                      |                          |
|----------------------|--------------------------|
| REACH classification | no prohibited substances |
|----------------------|--------------------------|

## Pictograms

### STANDARD



### OPTION

