

## PRODUCT BROCHURE

# KERN 572-31

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ENGLISH



All-rounder, e.g. as precision balance in the laboratory or in harsh industrial applications, ideal for the diverse possibilities of Industry 4.0 applications

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## PRODUCT SHOWCASE



## DESCRIPTION

- Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- The robust version, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Standardised, simplified concept of operation
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Ring-shaped draught shield included with the delivery, Weighing space W×D×H
- Level indicator to level the balance precisely
- Load support on the underside of the balance for models, Loop for underfloor weighing included with the delivery
- Protective working cover included with delivery

## SPECIFICATIONS

## Article codes, product groups & Status information

|                       |                     |
|-----------------------|---------------------|
| Model article-code    | 572-31              |
| Model-Serie           | 572                 |
| Assortment            | KERN                |
| Product Type          | Laboratory balances |
| Product group         | Precision balances  |
| Product usage type    | Main article        |
| EAN code (Model)      | 404576 1356832      |
| Predecessor Model     | 572-31-2021a        |
| Customs tariff number | 90160010            |
| CE Label              | yes                 |

## Technical data - Primary

|                      |           |
|----------------------|-----------|
| Weighing capacity    | 300 g     |
| Readability          | 0.001 g   |
| Repeatability        | 0.002 g   |
| Linearity            | ± 0.005 g |
| Minimum piece weight | 10 mg     |
| Weighing surface (d) | 106 mm    |

## Technical data - Construction

|                           |                 |
|---------------------------|-----------------|
| Dimension housing (W×D×H) | 180×310×85 mm   |
| Bubble Level              | yes             |
| Material weighing plate   | stainless steel |
| Revolving screw feet      | yes             |
| Casing material           | cast aluminium  |
| Weighing surface (d)      | 106 mm          |

|                                         |              |
|-----------------------------------------|--------------|
| Dimensions of weighing plate (diameter) | 106 mm       |
| Dimensions draft shield, inner (Ø×H)    | 157×43 mm    |
| Material draft shield                   | coated metal |

## Technical data - Display

|                |       |
|----------------|-------|
| Display height | 21 mm |
| Backlight      | yes   |

## Technical data - Power supply

|                                |                                   |
|--------------------------------|-----------------------------------|
| Mains adapter/adaptor included | CH;EURO;UK;US                     |
| Charging time                  | 8 h                               |
| Input Voltage                  | 100 V - 240 V AC, 50 / 60 Hz      |
| Operating time (Backlight off) | 48 h                              |
| Rechargeable battery           | Rchrg. battery optional (factory) |

## Technical data - Measuring system

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Calibration method                             | Adjusting with external weight |
| Linearity                                      | ± 0.005 g                      |
| Minimum weight (USP)                           | 4 g                            |
| Readability                                    | 0.001 g                        |
| Recommended adjusting weight                   | 300 g (F1)                     |
| Repeatability                                  | 0.002 g                        |
| Stabilisation time under laboratory conditions | 3 s                            |
| Warm up time                                   | 120 min                        |

## Technical data - Environmental conditions

|                               |        |
|-------------------------------|--------|
| Maximum humidity              | 80 %   |
| Maximum operating temperature | 40 °C  |
| Minimum ambient temperature   | -10 °C |

## Technical data - Packing & Shipping

|                                             |                |
|---------------------------------------------|----------------|
| Dimensions packaging (W×D×H)                | 400×340×220 mm |
| Gross weight                                | 3.4 kg         |
| Net weight                                  | 2.4 kg         |
| Shipping method                             | Parcel service |
| Packaging component - by weight - cardboard | 550 g          |
| Packaging component - by weight - plastics  | 550 g          |
| Delivery time                               | 1 d            |

## Technical data - Counting data

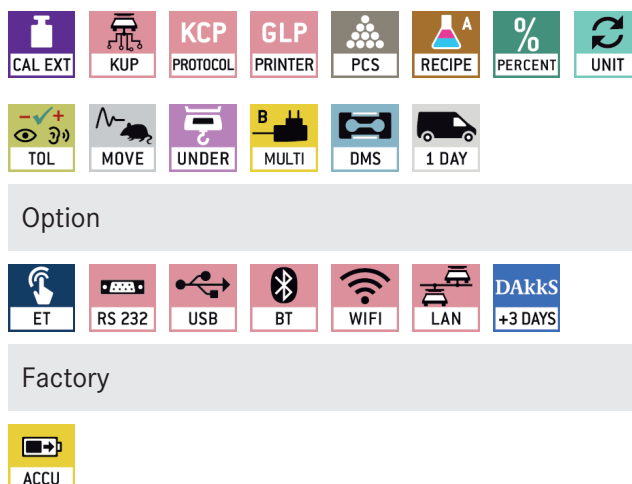
|                                                     |        |
|-----------------------------------------------------|--------|
| Counting resolution                                 | 300000 |
| Minimum piece weight at piece counting (Laboratory) | 1 mg   |
| Minimum piece weight                                | 10 mg  |

## Optional Services

|                   |         |
|-------------------|---------|
| DAkkS Calibration | 963-127 |
|-------------------|---------|

## FUNCTIONS

|          |
|----------|
| Standard |
|----------|



## ACCESSORIES

| Model               | Description                                         |
|---------------------|-----------------------------------------------------|
| 572-A02             | Protective Working Cover KERN 572-A02               |
| 911-013             | Matrix needle printer KERN 911-013                  |
| YKR-01              | Internal Rechargeable Battery Pack KERN YKR-01      |
| YKN-01              | Matrix needle printer KERN YKN-01                   |
| YKA-27              | Power Adapter KERN YKA-27                           |
| YKG-01              | Dot Matrix Printer KERN YKG-01                      |
| YKH-01              | Thermal printer KERN YKH-01                         |
| KUP-01              | Adapter KERN KUP-01                                 |
| KUP-03              | Adapter KERN KUP-03                                 |
| KUP-04              | Adapter KERN KUP-04                                 |
| KUP-05              | Adapter KERN KUP-05                                 |
| KUP-06              | Adapter KERN KUP-06                                 |
| YPS-03              | Antivibration table YPS-03                          |
| KUP-13              | Connecting cable KERN KUP-13                        |
| YPS-04              | Antivibration plate KERN YPS-04                     |
| YPS-05              | Antivibration plate KERN YPS-05                     |
| YKC-01              | Thermal printer KERN YKC-01                         |
| SCD-4.0-PRO-DL-AS05 | Software KERN BalanceConnection SCD-4.0-PRO-DL-AS05 |
| SCD-4.0-DLS05       | BalanceConnection Standard KERN SCD-4.0-DLS05       |

## SERVICES

| Model   | Description                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------|
| 963-127 | DAkkS Calibration KERN 963-127                                                                                   |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-103 | Warranty extension KERN (+2 years) 970-103                                                                       |

## SPARE PARTS

| Model   | Description                           |
|---------|---------------------------------------|
| 572-A02 | Protective Working Cover KERN 572-A02 |

| Model      | Description                                   |
|------------|-----------------------------------------------|
| R572-5001  | DC socket R572-5001                           |
| YKA-27     | Power Adapter KERN YKA-27                     |
| RT572-4001 | Keyboard overlay KERN RT572-4001              |
| RT572-1001 | Load cell KERN RT572-1001                     |
| RT572-8001 | Adjustable foot / rubber foot KERN RT572-8001 |
| RTDS-2001  | Main PCB KERN RTDS-2001                       |
| RT572-9001 | Level bubble KERN RT572-9001                  |
| RT572-8002 | Adjustable foot (rear) KERN RT572-8002        |
| RT572-6001 | Weighing plate KERN RT572-6001                |
| RTMCN-9001 | KUP Interface KERN RTMCN-9001                 |
| RT572-3001 | LCD Display KERN RT572-3001                   |
| RT572-8003 | Draft shield KERN RT572-8003                  |

## SOFTWARES

| Model          | Description                                    |
|----------------|------------------------------------------------|
| SCD-4.0-DL     | BalanceConnection Standard KERN SCD-4.0-DL     |
| SCD-4.0-PRO-DL | Software KERN BalanceConnection SCD-4.0-PRO-DL |
| SET-17         | KERN EasyTouch SET-17 PrePack                  |
| SET-01         | KERN EasyTouch SET-01 Base                     |
| SET-21         | KERN EasyTouch SET-21 Formulation              |
| SET-22         | KERN EasyTouch SET-22 Difference               |
| SET-31         | KERN EasyTouch SET-31 Tolerance                |
| SET-32         | KERN EasyTouch SET-32 Count                    |
| SET-33         | KERN EasyTouch SET-33 Target Count             |
| SET-04         | KERN EasyTouch SET-04 Density                  |
| SET-05         | KERN EasyTouch SET-05 Dynamic                  |
| SET-06         | KERN EasyTouch SET-06 Classification           |
| SET-07         | KERN EasyTouch SET-07 Variable                 |
| SET-08         | KERN EasyTouch SET-08 Take-out                 |
| SET-10         | KERN EasyTouch SET-10 Save Server              |
| SET-11         | KERN EasyTouch SET-11 Safety                   |

| Model   | Description                                 |
|---------|---------------------------------------------|
| SET-16  | KERN EasyTouch SET-16 Batch and Statistics  |
| SET-14  | KERN EasyTouch SET-14 Individual Print      |
| SET-28  | KERN EasyTouch SET-28 Customization Service |
| SET-35  | KERN EasyTouch SET-35 Assembly Count        |
| SET-18  | KERN EasyTouch SET-18 Container Master      |
| SET-46  | KERN EasyTouch SET-46 Backup Scheduler      |
| SET-51  | KERN EasyTouch SET-51 Audit Logs            |
| SET-411 | KERN EasyTouch SET-411 Hotkeys              |

## RELATED ARTICLES DATA

| Model name | Weighing capacity | Readability | Repeatability | Linearity    | Minimum piece weight | Weighing surface (d) |
|------------|-------------------|-------------|---------------|--------------|----------------------|----------------------|
| 572-30     | 240 g             | 0.001 g     | 0.001 g       | ± 0.003 g    | 10 mg                | 106 mm               |
| 572-31     | 300 g             | 0.001 g     | 0.002 g       | ± 0.005 g    | 10 mg                | 106 mm               |
| 572-32     | 420 g             | 0.001 g     | 0.002 g       | ± 0.005 g    | 10 mg                | 106 mm               |
| 572-33     | 1600 g            | 0.01 g      | 0.01 g        | ± 0.03 g     | 100 mg               | 150 mm               |
| 572-35     | 2400 g            | 0.01 g      | 0.01 g        | ± 0.03 g     | 100 mg               | 150 mm               |
| 572-37     | 3000 g            | 0.01 g      | 0.02 g        | ± 0.05 g     | 100 mg               | 150 mm               |
| 572-39     | 4200 g            | 0.01 g      | 0.02 g        | ± 0.05 g     | 100 mg               | 150 mm               |
| 572-45     | 12000 g           | 0.05 g      | 0.05 g        | ± 0.15 g     | 500 mg               | 160×200 mm           |
| 572-55     | 20 kg             | 0.00005 kg  | 0.0001 kg     | ± 0.00025 kg | 500 mg               | 160×200 mm           |
| 572-43     | 10 kg             | 0.0001 kg   | 0.0001 kg     | ± 0.0003 kg  | 1 g                  | 160×200 mm           |
| 572-49     | 16 kg             | 0.0001 kg   | 0.0001 kg     | ± 0.0003 kg  | 1 g                  | 160×200 mm           |
| 572-57     | 24 kg             | 0.0001 kg   | 0.0001 kg     | ± 0.0003 kg  | 1 g                  | 160×200 mm           |