PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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# KERN PNJ 3000-2M

The standard in the laboratory with robust tuning fork weighing system, with optional verification

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## CONTACT

**KERN & SOHN GmbH**
**Ziegelei 1**
**72336 Balingen**
**Germany**

**+49 7433 9933-0**
**info@kern-sohn.com**
**www.kern-sohn.com**



## APPLICATION EXAMPLE





## FEATURES

- Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size, practical for small spaces
- Large, shock proof weighing plate made of stainless steel
- Protective working cover included with delivery

## TECHNICAL DATA

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, W×D 190×190 mm
- Overall dimensions 196×293×89 mm
- Net weight approx. 3,6 kg
- Permissible ambient temperature 5 °C/40 °C

## MAIN SCOPE OF APPLICATIONS

- Chemists
- Quality control
- Electronics and precision mechanics industry
- Laboratory applications
- Dental laboratories

## PLEASE NOTE FOR YOUR ORDER

- For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order, the initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification

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## PICTOGRAMS

Standard




Option




Factory




## MODEL OVERVIEW

| Model | Weighing capacity [Max] | Readability [d] | Verification value [e] | Minimal load [Min] | Reproducibility | Linearity | Dimensions weighing surface |
|---|---|---|---|---|---|---|---|
| PNJ 600-3M | 620 g | 0,001 g | 0,01 g | 0,02 g | 0,001 g | ± 0,004 g | 140 mm |
| PNJ 3000-2M | 3200 g | 0,01 g | 0,1 g | 0,5 g | 0,01 g | ± 0,03 g | 190×190 mm |
| PNJ 12000-1M | 12000 g | 0,1 g | 1 g | 5 g | 0,1 g | ± 0,2 g | 190×190 mm |

## ACCESSORIES

| Model | Description |
|---|---|
| MLB-A05 | RS232 interface cable MLB-A05 |
| PNJ-A01. | Protective working cover PNJ-A01. |
| PNJ-A01S05 | Protective working cover PNJ-A01S05, scope of delivery: 5 items |
| YKC-01 | Thermal printer YKC-01 |
| YKG-01 | Dot Matrix Printer YKG-01 |
| YKH-01 | Thermal printer YKH-01 |

| Model | Description |
|---|---|
| YKI-10 | RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485) |
| YKI-11 | RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x) |
| YKI-12 | RS232-WiFi adapter YKI-12 |
| YKT-01 | Needle printer YKT-01 |
| YPS-03 | Antivibration table YPS-03 |
| YPS-04 | Anti-vibration plate KERN YPS-04 (400×450×60 mm, 30 kg) |
| YPS-05 | Anti-vibration plate KERN YPS-05 (565×450×60 mm, 42 kg) |



## SOFTWARE

| Model | Description |
|---|---|
| SCD-4.0-DL | Software SCD-4.0-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-DLS05 | Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses) |
| SCD-4.0-PRO-DL | Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-PRO-DL-AS05 | Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses) |

## SERVICES

| Model | Description |
|---|---|
| 963-127 | DAkkS calibration certificate 963-127 |
| 965-216 | Verification / Conformity assessment according to NAWI (2014/31/EU) 965-216 |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-104 | Warranty extension (+2 years) 970-104 |

# KERN Pictogram Overview

| | |
|---|---|
|  | Internal adjustment: Adjusting accuracy using internal adjustment weight |
|  | Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible |
|  | GLP/ISO protocol: The measuring device generates a GLP-compliant printout |
|  | Value & time: The measuring device displays the value, date, and time, regardless of the connected printer |
|  | Piece counting: Reference quantities selectable. Display can be switched from piece to weight |
|  | Percentage determination: determining the deviation in % from the target value (100 %) |
|  | Units can be switched to e.g. non-metric units |
|  | Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal |
|  | Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS |
|  | Weighing principle tuning fork: A resonating body is electromagnetically excited, causing it to oscillate |
|  | Package shipment by courier service: The duration of internal product provision is one day |
|  | Accredited calibration (DKD): The duration of the accredited calibration is 3 working days |
|  | Conformity assessment: The duration of the conformity assessment is 3 working days |

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