KERN®

SYSTEM SOLUTIONS INDUSTRY 4.0, EASYTOUCH

Laboratory | Industry | Food Industry

PROFESSIONAL MEASURING

2025

KERN Pictograms

Internal adjusting
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)
CAL INT

Adjusting program CAL
For quick setting up of the balance's accuracy. External adjusting weight required
CAL EXT

EasyTouch
Suitable for the connection, data transmission and control through PC or tablet
ET

Memory
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
MEMORY

Alibi memory
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
ALIBI

KERN Universal Port (KUP)
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort
KUP

RS-232 Data interface
To connect the balance to a printer, PC or network
RS 232

RS-485 Data interface
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible
RS 485

USB Data interface
To connect the balance to a printer, PC or other peripherals
USB

Bluetooth* Data interface
To transfer data from the balance to a printer, PC or other peripherals
BT

WIFI Data interface
To transfer data from the balance to a printer, PC or other peripherals
WIFI

Control outputs
(optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.
SWITCH

Analogue interface
to connect a suitable peripheral device for analogue processing of the measurements
ANALOG

Interface for second balance
For direct connection of a second balance
DUAL

Network interface
For connecting the scale to an Ethernet network
LAN

KERN Communication Protocol (KCP)
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems
KCP PROTOCOL

GLP/ISO log intern
The balance displays weight, date and time, independent of a printer connection
GLP INTERN

GLP/ISO log Printer
With weight, date and time. Only with KERN printers.
GLP PRINTER

Piece counting
Reference quantities selectable. Display can be switched from piece to weight
PCS

Recipe level A
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out
RECIPE A

Recipe level B
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
RECIPE B

Totalising level A
The weights of similar items can be added together and the total can be printed out
SUM A

Percentage determination
Determining the deviation in % from the target value (100 %)
PERCENT

Weighing units
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details
UNIT

Weighing with tolerance range (Checkweighing)
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model
TOL

Hold function
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
MOVE

Protection against dust and water splashes IPxx
The type of protection is shown in the pictogram
IP

Suspended weighing
Load support with hook on the underside of the balance
UNDER

Battery operation
Ready for battery operation. The battery type is specified for each device
BATT

Rechargeable battery pack
Rechargeable set
ACCU

Universal plug-in power supply
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, US
C) EU, CH, GB, US, AUS
MULTI

Plug-in power supply
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
230 V

Integrated power supply unit
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
230 V

Weighing principle Strain gauges
Electrical resistor on an elastic deforming body
DMS

Weighing principle Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate
T-FORK

Weighing principle Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings
FORCE

Weighing principle Single cell technology
Advanced version of the force compensation principle with the highest level of precision
SC TECH

Conformity Assessment
The time required for conformity assessment is specified in the pictogram
M +3 DAYS

DAkkS calibration possible (DKD)
The time required for DAkkS calibration is shown in days in the pictogram
DAkkS +3 DAYS

Factory calibration (ISO)
The time required for Factory calibration is shown in days in the pictogram
ISO +4 DAYS

Package shipment
The time required for internal shipping preparations is shown in days in the pictogram
1 DAY

Pallet shipment
The time required for internal shipping preparations is shown in days in the pictogram
2 DAYS

KERN Models A-Z

ANALYTICAL BALANCES
Quick-Finder Analytical Balances
The price leader in analytical bal...

KERN Quick-Finder

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that – find the product you want in 2 steps:
1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder

NEXT LEVEL Easy Touch **FUNCTIONS**

IoT ready

On-Screen Display - Diagramm

0,00 g

Functions

| CAL | TARE | PRE-TARE | PRINT |

On-Screen Display - Tabelle
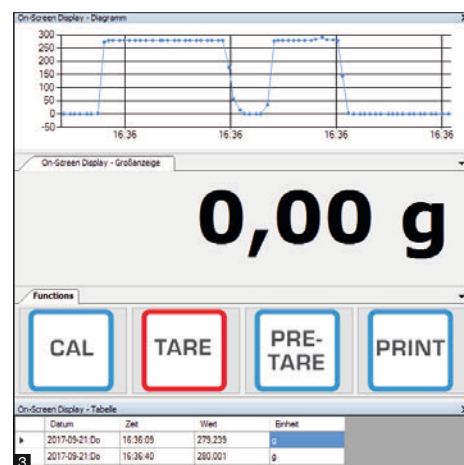
Robust industrial platform scale with digital weighing transmitter, ideal for varied range of applications for Industry 4.0

Features

- With this combination of platform **1** (KERN KFP V20 IP65) and digital weighing transmitter (KERN YKV-01) your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the digital weighing transmitter to the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, power supply via USB interface
- Transfer formats are freely configurable
- Digital weighing transmitter with standard ethernet data interface on request

- Functions: Weighing, taring
- Internal resolution 16 million divisions
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- KERN YKV-01: Robust plastic die-cast housing
- **2** KERN YKV-01: Suitable for wall mounting and DIN track mount (optional)
- included with the delivery:
  - Industrial platform KERN KFP
  - Digital weighing transmitter KERN YKV-01
  - **2** DIN rail mounting bracket for KERN YKV
  - Configuration software for adjusting and managing the KERN KGP, enables the display and transfer of values, for example to a PC as well as conversion for different user programs such as SAP, Oracle etc.

Technical data

- Weighing plate material: stainless steel
- KERN YKV-01: Overall dimensions W×D×H 100×140×36 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02, **€ 98,–**
- WiFi interface, KERN YKV-A01, **€ 98,–**
- Ethernet data interface on request
- **3** BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,–**

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STANDARD | | | | | | OPTION | | FACTORY
CAL EXT | RS 232 | USB | KCP PROTOCOL | UNIT | IP 65 | DMS | 2 DAYS | ET | DAkkS +3 DAYS | BT 4.0 | WIFI | LAN

1

Model	Weighing capacity [Max]	Readability	Weighing platform W×D×H	Cable length approx.	Net weight approx.	Price excl. of VAT ex works	Options DAkkS Calibr. Certificate DAkkS	
KERN	kg	[d] g	mm	m	kg	€	KERN	€
KGP 6K-4	6	0,2	230×230×106	3	6	**440,–**	963-128	124,–
KGP 6K-4L	6	0,2	300×240×109	3	10	**460,–**	963-128	124,–
KGP 10K-4	15	0,5	300×240×109	3	6	**480,–**	963-128	124,–
KGP 10K-4L	15	0,5	400×300×117	3	10	**500,–**	963-128	124,–
KGP 30K-3	30	1	300×240×109	3	6	**460,–**	963-128	124,–
KGP 30K-3L	30	1	400×300×117	3	10	**520,–**	963-128	124,–
KGP 60K-3	60	2	400×300×117	3	10	**540,–**	963-129	153,–
KGP 60K-3L	60	2	500×400×127	3	14	**600,–**	963-129	153,–
KGP 100K-3	150	5	500×400×127	3	14	**600,–**	963-129	153,–
KGP 100K-3L	150	5	650×500×139	3	22	**820,–**	963-129	153,–
KGP 300K-2L	300	10	650×500×139	3	22	**870,–**	963-129	153,–

! ONLY WHILE STOCKS LAST

0,00 g

| CAL | TARE | PRE-TARE | PRINT |
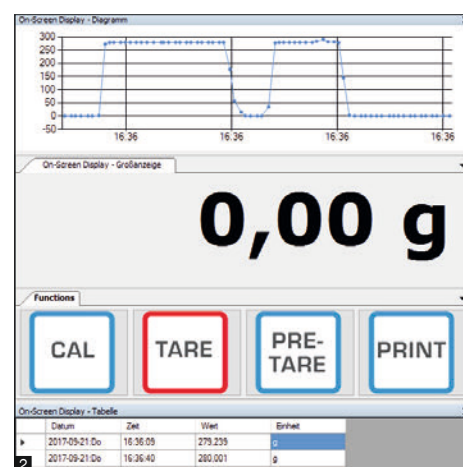
Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

Features

- Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- Robust plastic die-cast housing
- ❶ Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms
- included with the delivery:
  - Digital weighing transmitter KERN YKV
  - USB cable incl. mains plug
  - DIN rail mounting bracket
  - Configuration software for adjusting and managing, enables the display and transfer of values, for example to a PC as well as conversion for different user programs such as SAP, Oracle etc.

Technical data

- Overall dimensions W×D×H 100×140×36 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02, **€ 98,–**
- WiFi interface, KERN YKV-A01, **€ 98,–**
- ❷ BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,–**

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STANDARD

| CAL EXT | KCP PROTOCOL | B MULTI | 1 DAY | RS 232 | USB | LAN | GLP PRINTER | UNIT |

YKV-02

FACTORY

| BT 4.0 | WIFI |
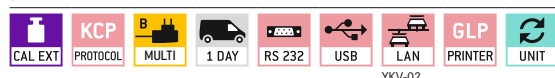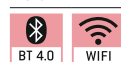
Model	Standard interfaces	Price excl. of VAT ex works €
KERN		
YKV-01	RS-232, USB	**265,–**
YKV-02	RS-232, USB, Ethernet	**320,–**
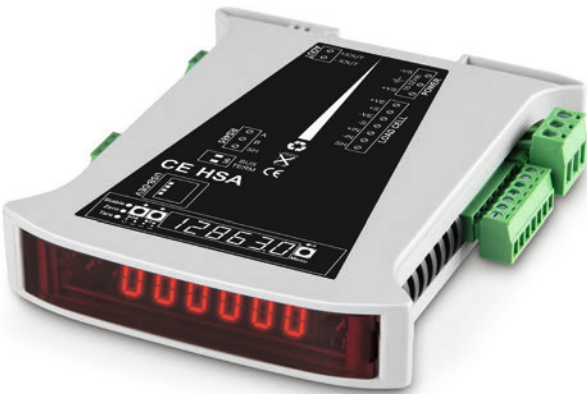
Compact display device (rail-mounted module) for installation in switch cabinets

Features

- Compact display unit for recording weighing data using strain gauge load cells
- It is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- Configuration of the module conveniently via a connected PC with the suitable software (Download see Internet)
- Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- Convenient communication via remote devices
- Backup and restore function via USB port

- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS, PROFIBUS DP and PROFINET (according to model)
- Extremely high measurement frequency possible, up to 1600 data records/second
- Internal resolution 24 Bit

Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Power supply 18-32 Vdc; 4 W max.
- Power supply load cell 5 Vdc
- Sensitivity 0,1 µV/d
- Adjustable nominal sensitivity 1; 1.5; 2; 2.5; 3 mV/V
- Input voltage unipolar @ 3 mV/V: -1 mV to + 16 mV
- Input voltage bipolar @ 3 mV/V: -16 mV to +16 mV
- Max. load cell impedance 1200 Ω
- Min. load cell impedance 43,75 Ω
- Max. no. of load cells 350 Ω: 8
- Max. no. of load cells 1000 Ω: 22
- Max. resolution d 10.000
- Display steps 1, 2, 5, 10, 20, 50, 100, 200
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail, KERN CE HSS, € 90,–
- Large display with superior display size, KERN YKD-A02, € 310,–
- For further accessories, such as load and load cells, torque sensors and weighing platforms (strain gauge based only) from the SAUTER and KERN range, see internet
- Further accessories such as DIN rail, housing as well as individual assembly, configuration, adjustment, etc. on request

Note: Models optionally also available verified, please enquire

STANDARD

| CAL EXT | USB | UNIT | 1 DAY |

OPTION

| RS 232 | PROFIBUS | PROFINET | SWITCH | ANALOG | LAN |

Model	Communication Interfaces	Digital I/O	Analog output	Price excl. of VAT ex works €
KERN				
CE HSAIO*	USB	3 input / 4 output	0/4-20/24 mA	**920,–**
CE HSP*	USB, PROFIBUS	3 input / 4 output		**590,–**
CE HSR*	USB, RS-232, RS-422	3 input / 4 output		**560,–**
CE HSN	USB, PROFINET	3 input / 4 output		**830,–**

! * ONLY WHILE STOCKS LAST

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NEXT LEVEL
Easy Touch
FUNCTIONS

IoT ready

On-Screen Display - Diagramm

On-Screen Display - Großanzeige

0,00 g

Functions

| CAL | TARE | PRE-TARE | PRINT |

On-Screen Display - Tabelle

	Datum	Zeit	Wert	Einheit
▶	2017-09-21 Do	16:36:09	279.239	g
2	2017-09-21 Do	16:36:40	280.001	g
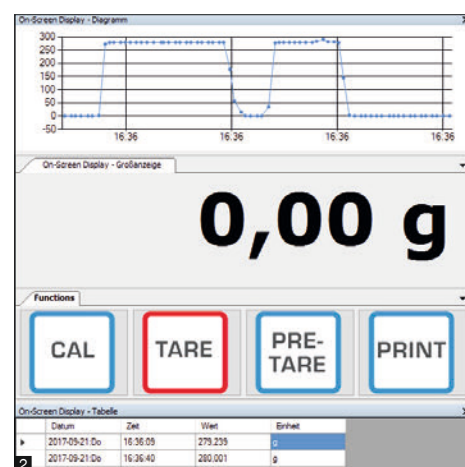
Universal weighing platforms for flexible connection in process chains

Features

- These weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the platform with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- **1** A practical status LED informs about the active power supply

- Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- **2** Software BalanceConnection for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs included with the delivery

Technical data

- Dimensions weighing surface
  A ∅ 105 mm, plastic, with conductive lacquer
  B W×D 160×160 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03, **€ 54,–**
- WiFi data interface to transfer data from balances to PC or tablet, must be ordered at purchase, KERN YMI-A01, **€ 95,–**
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KDP-A02, **€ 110,–**

*WiFi and Ethernet data interface cannot be combined

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STANDARD					OPTION		FACTORY		
CAL EXT	USB	KCP PROTOCOL	MULTI	DMS	1 DAY	ET	DAkkS +3 DAYS	BT 4.0	WIFI	LAN

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works	Options DAkkS Calibr. Certificate	
	[Max]	[d]					DAkkS	
KERN	g	g	g	g		€	KERN	€
KDP 300-3	350	0,001	0,002	± 0,005	**A**	**490,–**	963-127	103,–
KDP 3000-2	3500	0,01	0,02	± 0,05	**B**	**490,–**	963-127	103,–
KDP 10K-4	10000	0,1	0,1	± 0,3	**B**	**460,–**	963-128	124,–
KDP 10K-3	10000	1	1	± 3	**B**	**440,–**	963-128	124,–

WE CAN MAKE YOUR WEIGHING DATA DIGITAL – KERN EASYTOUCH

The KERN EasyTouch software combines the performance of KERN scales with the flexibility of a Windows or Android environment.

The modular system solution for efficient weighing – perfect for your individual requirements.

KERN EasyTouch – weighing is so easy today:
A perfectly coordinated weighing system
consisting of platform, balance and tablet

See for yourself the many benefits of the KERN EasyTouch Software:

→ **Greater efficiency through short workflows for the user**

→ **Greater security of the measuring results**

→ **Avoiding measuring and process errors**

→ **Unlimited master data memory**

→ **Central data storage and data security (tamper-proof)**

→ **Interfaces to ERP, PPS, etc. systems**

All details about KERN EasyTouch can be found at
https://lp.kern-sohn.com/en/easytouch

See for yourself how convenient
and easy it is
to use KERN EasyTouch

Working with KERN EasyTouch is so easy

Collect the weight and measurement data with a device from our KERN IoT-Line	KERN EasyTouch combines and processes weights with master and product data, as well as user and time information	Supply of data to connected systems or peripheral devices

→ A standard balance from our KERN IoT-Line is connected to an external laptop/tablet

→ The performance of the balance is transferred to the terminal device 1:1

→ The expansion of the user interface enables simple and intuitive operation of the balance and direct display and processing of measurement and master data

→ The data is integrated directly in the process and this means it can continue to be used and stored

→ Errors in the process or application are avoided

→ In this way a simple balance becomes a highly-complex measuring device

→ The recorded data can be processed further in a flexible way

KERN EasyTouch – these functions are included:

• Basic program with functions including weighing and dispensing function, as well as master data and user administration

• Over 20 optional add-on functions

• Tamper-proof data storage and seamless traceability of your measurement data and changes to your master data

• On request we can also offer tailor-made solutions – get in touch with us!
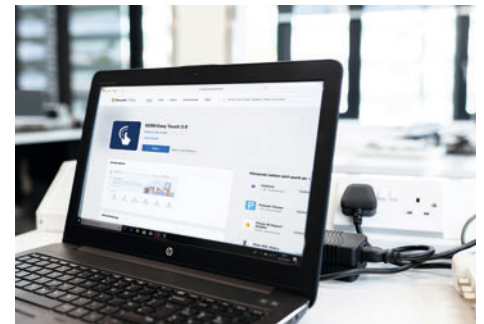
KERN EasyTouch App – download now from Microsoft Store® (for Windows®) or Google Play Store® (for Android™)

Test it without any risk and free of charge – it's that easy:

1 **Download KERN EasyTouch from the App Store**
The free trial version contains the full range of functions.

2 **Connect the devices you need**
Connect to devices using the four interfaces provided (Bluetooth, wired or USB adapter or WiFi).

3 **Basic program with optional add-on functions 180-day test**
During the testing phase you can decide whether to continue using the software. With absolutely no loss of data.

Talk to the professionals

Our specialists will gladly inform and advise you on all questions regarding KERN EasyTouch

Tel. +49 7433 9933–324
etsales@kern-sohn.com

Maximilian Pfister   Wolfgang Schäfer

KERN EasyTouch – You have the following options

Possible interfaces:

→ Wired through RS 232 interface cable + USB adapter AFH 13

→ Bluetooth through KUP-06 or KUM-06

→ Ethernet through KUP-04 or KUM-04

→ WiFi through KUP-05 or KUM-05

Your benefits of the KERN EasyToch software

→ You only pay for the functions that you use

→ Expansion of the range of services of your balance to meet your individual ideas and preferences

→ Easy control of your balances from wherever you currently are: laboratory, production, office control of a PC, laptop or a tablet

→ Tamper-proof storage of all weighing data on a central server, in an orderly database

KERN EasyTouch – available right now for the following KERN ranges/models

KERN Balances / Weighing platforms					
Display Devices	KFC[1]	Stainless steel Platform Scales	SXC[1]	Precision Balances	572
Baby Scales	MBA	Compact Laboratory Balances	PCB	Wheelchair platform scales	MWN[1]
Floor Scales	BID[1]	Pallet Scales	UID[1]	Chair scales	MCN[1]
Digital Platforms	KDP	Personal Balances	MPN[1]	Bench Scales	FCB[1]
Digital Weighing Systems	KGP	Platform Scales	DS, IFB, IFC[1], IOC[1], IXC[1]	Counting Scales	CDS, CKE

[1] Verified operation: Weighing data from legally regulated uses can be stored and archived in KERN EasyTouch in conformity with standards, by using models from this product family with valid calibration and measurement value memory. This standard-compliant data storage also applies to SaveServer.

Depending on the model and connection type (USB, Bluetooth, Ethernet, WiFi), please contact KERN specifically, as there may currently still be restrictions on the possible combinations.

Tip: Other KERN ranges can be adapted to be EasyTouch compatible – keep up-to-date with the latest new on **https://lp.kern-sohn.com/en/easytouch**

Note: All KERN models which are EasyTouch compatible are marked with the relevant symbol in the catalogue!

EasyTouch function at a glance

Basic Package – Operating system

SET-01 EasyTouch Base

Basic Weighing & Laboratory Package
The basic package contains many useful functions such as weighing, totalizing, target dispensing and percentage weighing.
As well as the local master data administration and management of the weighing results.

The basic package can be expanded at any time with additional, optional add-on functions.

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Optional add-on functions

SET-07 Variable	**SET-08 Take-Out**	**SET-11 Safety**
Free variable function Individually definable units, e.g. cable length g/m, weight per unit area g/m^2, etc.	**Take-out function** Ideal for portioning by removing from a source container	**Precision & Safety function** Scale monitoring: the MUST for the pharmaceutical sector
SET-16 Batch & Statistics	**SET-21 Formulation**	**SET-22 Difference**
Batch measuring function with statistical analysis Perfect function in the context of production control, for calculating averages, etc.	**Recipe function** Recipe management, dosing aid, recipe adjustment, multiplier function, etc.	**Difference function** Monitoring of weight increase (e.g. cell growth) or weight decrease (e.g. drying) and calculation of the weight difference
SET-31 Tolerance	**SET-32 Count**	**SET-33 Target Count**
Tolerance weighing function Weighing within defined limits ensures fast sorting, portioning, picking, checking	**Piece-counting function** Fast counting of large quantities, avoids counting errors, saves time and money!	**Target-counting function** For lightning-fast picking of small parts, safely supported by optical and acoustic signals
SET-17 PrePack	**SET-14 Individual Print**	**You can find more functions on our EasyTouch home page:**
Production control and packaging Perfect for use in sectors such as the food industry for weighing in accordance with pre-packaging legislation	**User-customised print format function** Individual positioning of print elements, form printing, paper sizes and barcode printing is possible	https://lp.kern-sohn.com/en/easytouch

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Central data memory

SET-10 Save-Data Server	**SET-28 Customization Service**
Weight storage and Save-Server function Central storage of weighing and measuring data in a network	**Service for programming** Setting up and configuring interfaces (e.g. to merchandise management, ERP or PPS) and individual customer requirements

The oldest Precision Balance Factory in Germany

KERN & SOHN GmbH
Balances, Test Weights, Microscopes,
DAkkS Calibration Laboratory

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info@kern-sohn.com
www.kern-sohn.com

**Discover the multifaceted World of Balances, Microscopes and Measuring Technology
from KERN online: www.kern-sohn.com**

→ Full KERN & SAUTER Product Range

→ Convenient 24/7 Ordering

→ Selection of more than 5,000 Items
  across Weighing and Measuring
  Technology, Optical Instruments as
  well as Accessories and Services

→ Extensive Information and useful
  Download Options

→ Technical Product Data Sheets

→ Operating Instructions

→ Descriptive Image and
  Video Material

→ Useful KERN Services

→ Technical Glossary

→ KERN Dealer Portal

→ Practical Filter and Search Functions

Follow us on our social media
channels too

Zertifiziertes DQS MED Managementsystem

CONFORMITY ASSESSMENT ACCORDING TO NAWID: 2014/31/EU

German Excellence Group
Member

MITTELSTAND GLOBAL
HEALTH MADE IN GERMANY