

Parcel scale KERN DE-D



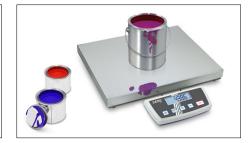
The long lasting story of success with dust and spray protected display device



**Piece counting** 



Animal weighing



**Recipe-weighing** 

# **KERN BALANCES & TEST SERVICES CATALOGUE 2020**

# Parcel scale KERN DE-D



# Features

STANDARD

- High mobility: thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Display device** flexible positioning, e.g. free-standing or mounted to the wall
- Display device: plastic, protection against dust and water splashes IP65
- Weighing plate stainless steel, painted steel base
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- 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



 Protective working cover included with delivery

# **Technical data**

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel  $W{\times}D{\times}H$
- A 318×308×75 mm
- B 318×308×88 mm
- 522×406×98 mm, see larger picture
- D 522×403×83 mm
- 650×500×89 mm
- Dimensions of display device, W×D×H 225×110×45 mm
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 12 h
- Permissible ambient temperature 5 °C/35 °C

OPTION



# Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05
- Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02
- Mount to fasten the display device to the platform, KERN DE-A11N
- Wall mount for display device, KERN DE-A13
- Stand to elevate display device, height of stand approx. 480 mm, KERN DE-A10
- Individual header data: the free software SHM-01 can be used to print header lines on the printout when using printers YKN-01 and YKB-01N
- Further details, plenty of further accessories and suitable printers see *Accessories*

	• 6888.•			%	$\mathcal{C}$	^	666		в			<b></b> ,	DAkkS
CAL EXT	RS 232	PCS	SUM	PERCENT	UNIT	MOVE	IP 65	BATT	MULTI	DMS	1 DAY	ACCU	+3 DAYS
							1						

Model	Weighing Readability Reproduci-		Reproduci-	Linearity	Smallest part Cable length		Net weight	Weighing	Option
	capacity		bility		weight			plate	DAkkS Calibr. Certificate
	[Max]	[d]			[Normal]	approx.	approx.		DAkkS
KERN	kg	g	g	g	g/piece	m	kg		KERN
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]									
DE 6K1D	3   6	1   2	1   2	±3 6	40	1,4	4,8	A	963-128
DE 15K2D	6   15	2   5	2   5	± 6   15	100	1,4	4,8	A	963-128
DE 35K5D	15   35	5   10	5   10	± 15   30	100	1,4	4,8	A	963-128
DE 35K5DL	15   35	5   10	5   10	± 15   30	100	1,4	16	D	963-128
DE 60K10D	30   60	10   20	10   20	± 30   60	200	1,4	4,8	A	963-129
DE 60K10DL	30   60	10   20	10   20	± 30   60	200	1,4	16	D	963-129
DE 150K20D	60   150	20   50	20   50	± 60   150	400	1,6	5,0	A	963-129
DE 150K20DL	60   150	20   50	20   50	± 60   150	400	1,4	16	D	963-129
DE 150K20DXL	60   150	20   50	20   50	± 60   150	400	1,4	28	E	963-129
DE 300K50D	150   300	50   100	50   100	± 150   300	2000	1,25	16	D	963-129
DE 300K50DL	150   300	50   100	50   100	± 150   300	2000	1,05	28	E	963-129
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	A	963-128
DE 12K1A	12	1	1	± 3	20	1,4	4,8	A	963-128
DE 24K2A	24	2	2	± 6	40	1,4	4,8	Α	963-128
DE 60K5A	60	5	5	± 15	100	1,4	4,8	A	963-129
DE 120K10A	120	10	10	± 30	200	1,4	5,0	Α	963-129
	Dual-range balance with high resolution readability								
DE 15K0.2D	6   15	0,2   0,5	0,2   0,5	± 0,8   2	4	1	4	В	963-128
DE 35K0.5D	15   35	0,5   1	0,5   1	±2 4	10	1	7	В	963-128
DE 60K1D	30   60	1   2	1   2	±4 8	20	1,47	7	В	963-129
DE 60K1DL	30   60	1   2	1   2	±4 8	20	1,4	15	C	963-129
DE 150K2D	60   150	2   5	2   5	± 8   20	40	1,6	7	В	963-129
DE 150K2DL	60   150	2   5	2   5	± 8   20	40	1,4	15	C	963-129
DE 300K5DL	150   300	5   10	5   10	± 20   40	100	1,4	15	C	963-129

# **KERN BALANCES & TEST SERVICES CATALOGUE 2020**



# Internal adjusting:

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

# Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required



CAL EXT

# Easy Touch:

Suitable for the connection, data transmission and control through PC, tablet or smartphone Memory:

Balance memory capacity, e.g. for article data,

## MEMORY

weighing data, tare weights, PLU etc. Alibi memory: Secure, electronic archiving of weighing results,

ALIBI complying with the 2014/31/EU standard.

# Data interface RS-232:

• 6550 • To connect the balance to a printer, PC or RS 232 network

# RS-485 data interface:

• 6534 • To connect the balance to a printer, PC or other RS 485 peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



# USB data interface:

Bluetooth\* data interface:

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

# ₿ BT

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



# WLAN data interface:

To transfer data from the balance to a printer. PC or other peripherals



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

to connect a suitable peripheral device for ANALOG

analogue processing of the measurements Interface for second balance:

For direct connection of a second balance



# Network interface:

Analogue interface:

For connecting the scale to an Ethernet network



LAN

# Wireless data transfer:

between the weighing unit and the evaluation unit using an integrated radio module

\*The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

# **KERN – Precision is our business**

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and bestequipped DAkkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

# Range of services:

- · DAkkS calibration of balances with a maximum load of up to 50 t
- · DAkkS calibration of weights in the range of 1 mg 2500 kg
- · Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- · Database supported management of checking equipment and reminder service · Calibration of force-measuring devices
- · DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- · Conformity evaluation and reverification of balances and test weights

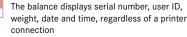


PCS

PROTOCOL

GLP/ISO log:

digital systems



**KERN Communication Protocol (KCP):** 

It is a standardized interface command set for

KERN balances and other instruments, which

parameters and functions of the device. KERN

devices featuring KCP are thus easily integrated

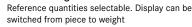
with computers, industrial controllers and other

allows retrieving and controlling all relevant

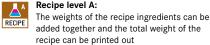
# GLP/ISO log:

With weight, date and time. Only with KERN PRINTER printers

# **Piece counting:**



# Recipe level A:



# Recipe level B:

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

#### **Recipe level C: ∠**<sup>c</sup>



Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

#### Totalising level A:

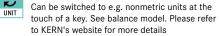
The weights of similar items can be added SUM together and the total can be printed out



Percentage determination:

Determining the deviation in % from the target value (100 %)

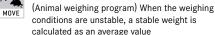
#### Weighing units: C

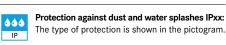


#### Weighing with tolerance range: ○ 3)

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

#### Hold function:





KERN

#### Stainless steel:

The balance is protected against corrosion

## Suspended weighing:

Load support with hook on the underside of the balance

#### **Battery operation:**

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



INOX

## Rechargeable battery pack: Rechargeable set



# Universal mains adapter:

with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

## Mains adapter:

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

## Power supply:



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



### Weighing principle: Strain gauges Electrical resistor on an elastic deforming body

(((1))) T-FORK

s T

Weighing principle: Tuning fork A resonating body is electromagnetically

excited, causing it to oscillate

# Weighing principle: Electromagnetic force

compensation FORCE Coil inside a permanent magnet. For the most accurate weighings

SC TECH

## Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision

Μ

## Verification possible: The time required for verification is specified in

Package shipment:

Pallet shipment:

DAkkS calibration possible:

is shown in days in the pictogram

The time required for DAkkS calibration

The time required for internal shipping

The time required for internal shipping

preparations is shown in days in the pictogram

preparations is shown in days in the pictogram

the pictogram

+3 DAYS

DAkkS

+3 DAYS

1 DAY

2 DAYS

Your KERN specialist dealer: