KERN BALANCES & TEST SERVICES 2022

KERN

Counting scale KERN IFS



Industrial counting scale with convenient decimal keypad for easy data entry – now also with EC type approval [M], counting resolution up to 75000 points

Features

- Tough industry standard suitable for use in harsh industrial applications
- Ergonomic display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout of date and time for GLP and GMP compliant data logging

- Precise counting: The manual reference weight optimisation gradually improves the average value of the piece weight
- Totalising of pieces when counting
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions weighing surface, Stainless Steel
 230×230×110 mm
- 300×240×110 mm
- C 400×300×120 mm
- 500×400×140 mm
- 650×500×140 mm

- Dimensions of display device W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- II Stand to elevate display device Height of stand approx. 330 mm, KERN IFB-A01

Height of stand approx. 600 mm, for models with weighing plate size **D**, **E**, KERN IFB-A02

- Internal rechargable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01
- Further details, plenty of further accessories and suitable printers see *Accessories*



								IFS-M				
Model	Weighing	Readability	Verification	Smallest part	Counting	Net weight	Weighing		Option			
	capacity		value	weight	resolution		plate		Verification [DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Normal]		approx.			MU		DAkkS	
KERN	kg	g	g	g/piece	Points	kg			KERN		KERN	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]												
IFS 6K-4S	3 6	0,1 0,2	-	1	60.000	4,6	A		-		963-128	
IFS 10K-4	6 15	0,1 0,2	-	2	75.000	6	В		-		963-128	
IFS 30K0.2DL	12 30	0,2 0,5	-	5	60.000	11	C		-		963-128	
IFS 60K0.5D	30 60	0,5 1	-	10	60.000	10	C		-		963-129	
IFS 60K0.5DL	30 60	0,5 1	-	10	60.000	12	D		-		963-129	
IFS 100K-3	75 150	1 2	-	25	60.000	12	D		-		963-129	
IFS 100K-3L	75 150	1 2	-	25	60.000	20	E		-		963-129	
IFS 300K-3	150 300	2 5	-	50	60.000	22	E		-		963-129	
No	te: For appli	cations that	require verifi	cation, please of	order verificat	ion at the sa	me time, i	nitial verificat	ion at a later	date is r	ot possible.	
			Verification	at the factory, v	we need to kn	ow the full a	ddress of t	the location o	f use.			
IFS 6K-3SM	3 6	1 2	1 2	1	60.000	6	A		965-228		963-128	
IFS 6K-3M	3 6	1 2	1 2	1	60.000	6	В		965-228		963-128	
IFS 10K-3M	6 15	2 5	2 5	2	75.000	6	В		965-228		963-128	
IFS 10K-3LM	6 15	2 5	2 5	2	75.000	10	С		965-228		963-128	
IFS 30K-3M	15 30	5 10	5 10	5	60.000	10	C		965-228		963-128	
IFS 60K-2M	30 60	10 20	10 20	10	60.000	11	C		965-229		963-129	
IFS 60K-2LM	30 60	10 20	10 20	10	60.000	13	D		965-229		963-129	
IFS 100K-2M	60 150	20 50	20 50	25	60.000	12	D		965-229		963-129	
IFS 100K-2LM	60 150	20 50	20 50	25	60.000	22	E		965-229		963-129	
IFS 300K-2M	150 300	50 100	50 100	50	60.000	22	E		965-229		963-129	





KERN BALANCES & TEST SERVICES 2022

Pictograms

Internal adjusting: Quick setting up of the balance's accuracy with



internal adjusting weight (motordriven)



Adjusting program CAL:

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



Easy Touch:

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

Memory: MEMORY

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



Alibi memory:

Secure, electronic archiving of weighing results, 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:

To connect the balance to a printer, PC or other peripherals. Suitable for datatransfer over large distances. Network in bus topology is possible



USB data interface:

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

Bluetooth* data interface:

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



*

WiFi 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.



Analogue interface:

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



Interface for second balance:

KERN – Precision is our business

For direct connection of a second balance



balance calibration.

ment in Europe

Range of services:

characteristics) for test weights

· Calibration of force-measuring devices

Network interface:

For connecting the scale to an Ethernet network

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

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

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.

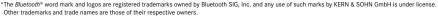
· Volume determination and measuring of magnetic susceptibility (magnetic

· Conformity evaluation and reverification of balances and test weights

· Database supported management of checking equipment and reminder service

· DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL

· 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





KCP

PROTOCOL

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

Piece counting:

connection

digital systems GLP/ISO log:

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

KERN Communication Protocol (KCP):

It is a standardized interface command set for

KERN balances and other instruments, which

devices featuring KCP are thus easily integrated

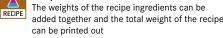
with computers, industrial controllers and other

The balance displays serial number, user ID,

weight, date and time, regardless of a printer

allows retrieving and controlling all relevant parameters and functions of the device. KERN

Recipe level A:



Recipe level B:

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

Totalising level A:

Η' 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:

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



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

Hold function:

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



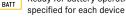
Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram.

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

Battery operation:







Ready for battery operation. The battery type is

Rechargeable battery pack: Rechargeable set



Universal plug-in power supply:

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



Plug-in power supply:

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

Integrated power supply unit:



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

1	DMS

Weighing principle: Strain gauges:

Electrical resistor on an elastic deforming body



Weighing principle: Tuning fork:

A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle: Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings



Weighing principle: Single cell technology:

DAkkS calibration possible (DKD):

is shown in days in the pictogram

Factory calibration (ISO):

Package shipment:

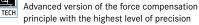
Pallet shipment:

The time required for DAkkS calibration

The time required for Factory calibration

The time required for internal shipping preparations

The time required for internal shipping preparations



Verification possible: The time required for verification is specified in the pictogram

М +3 DAYS

DAkkS

+3 DAYS

ISO

+4 DAYS

1 DAY

ò

2 DAYS

Your KERN specialist dealer: