

CAL **Internal adjusting (CAL):** quick setting of the balance's accuracy with internal adjusting weight (motor-driven).

CAL **Adjusting program (CAL):** for quick setting of the balance's accuracy. External adjusting weight required.

PCS **Piece counting:** reference quantities selectable. Display can be switched from piece to weight.

RS 232 **Data interface:** RS 232 C, bidirectional, for connection of printer or PC.

GLP **GLP/ISO record keeping** of weighing data with date, time and identification. Only with printers from KERN.

REZ **Net-total weighing:** weight of tare-pan and weight of components memorized in two separate stores.

% **Percentage determination:** Displays the deviation from the reference weight (100%) in % instead of grammes.

UNIT **UNIT:** Weighing units can be switched to e.g. non-metric units at the touch of a key. See balance model

TOL **Weighing with tolerance range:** upper and lower limiting can be programmed individually, e.g. dosing / sorting.

IP 54 **Spray and dust protection:** protection class is indicated in the symbol.

U **Underfloor weighing:** load support with hook on the underside of the balance.

AKU **Accu-supply:** rechargeable set.

230 V **Mains adapter:** 230 V / 50 Hz. Standard type D, if requested also available in standard UK, AUS or USA.

230 V **MAINS PART:** mains part integrated in the balance. 230 V/50 Hz in Germany. Upon request also in standard UK, AUS or USA

TAR **Tare:** put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.

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KERN is uncomplicated - that is our motto.

...That is why we have created a number of navigational aids with which you can easily and quickly find your desired model.

Pictograms

with these you can obtain a rapid overview of the features of the individual models.

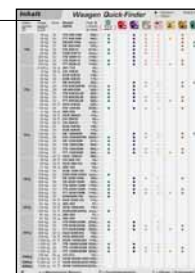
All pictograms can be found on the folded page inside the cover.

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with this you can quickly find your way through the sections of the catalogue: pocket balances, laboratory balances, industrial balances, test service.

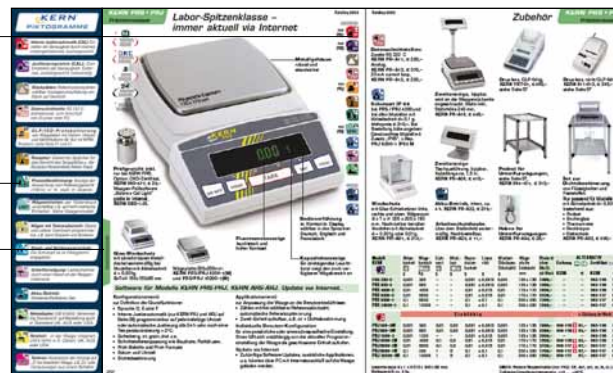
Balance quick finder

all models at a glance. Select the desired reading capability and the weighing range. With the page reference you get there immediately.



Dictionary A-Z

all terms concerning weighing technology at a glance - explained easily and comprehensively.



KERN online

You can find everything about KERN on the internet under: **www.kern-sohn.com**

In general we only deliver end customer orders placed via our online shop through a specialist dealer. You as a specialist dealer can link up free of charge your internet website on to our online shop. Thanks to our special **affiliate software** no contacts are lost. Please enquire about your individual link-up code.



Our service

Telephone support: specialists on the hotline from 8 a.m. to 6 p.m.

Repair service in the plant within 1 week. Exclusive of transport.

Low cost new device: if the cost of repair exceeds the current value of the defective device we offer you a new device at a reduced price. This offer is valid up to 2 years after the warranty has expired.

Spare parts service mostly leaving KERN within 48 h exclusive of transport.

Important notice: our balances are not suitable for rooms with danger of explosion or high humidity. Observe relevant electrical instructions.



Speedy delivery - mostly leaving KERN warehouse within 24 hours. Minimal transport costs thanks to optimized logistics.

No storage costs for you, we hold stock.

We even take **small orders** seriously. At KERN there is no minimum order value. For orders of less than € 15.00 there is no trade discount.

Prices:

Validity of prices as from 01 April 2003 until the next catalogue comes out. In Europe all prices are exclusive of any applicable V.A.T.

Sales conditions:

We supply **ex works Balingen**, i.e. the transport costs are invoiced. Any goods supplied remain our property until complete payment has been made. Legal domicile is Balingen. Subject to price and product modification in individual cases as well as error.

Terms of payment: 30 days net.

Warranty: 3 years. For devices costing less than Euro 400.00 2 years' warranty.

Catalogue KERN 2003:

This catalogue is available free of charge in any quantity required, including in neutral format for your marketing activities, i.e. without KERN address imprint. We are able to print - also free of charge - your company address, minimum quantity 200 pcs. In this way it becomes your individual catalogue. This catalogue can be provided in the following languages: English, German, French, Spanish, Italian, Dutch and Russian.

A speciality of KERN is the online dictionary with extensive information on products and services, e.g. the calibration service and questions specific to balances.

Brochures and operating instructions are provided online as PDF files free of charge. Also picture and text material for your own advertising activities.

Free download of our **special balance software**, further information on **page 57**.

What is good about KERN



KERN always offers an inexpensive **alternative**.

KERN balances are **robust** and **uncomplicated** - smooth putting into operation.

Test weight is supplied as standard with KERN laboratory balances. This free test material guarantees at all times high accuracy of the balance and minimises the running service costs. Balance test software "**BalanceCal Light**" free on the internet, **KERN SBD-1.0L**

About ourselves



KERN - yesterday and today

Mechanikus Gottlieb Kern founded his company in 1844 and from the outset manufactured the most accurate balances of his time. His business became the germ cell of the internationally famous southern German precision balance manufacturing.

Today we are specialists in accurate weighing accredited to the latest standard DIN ISO 9001:2000, have almost 160 years of experience and are devoted to quality.

The brand **KERN** stands for precision and reliability. We are a medium size family company in the 5th generation registered in the south of Germany. We are totally independent and have no duties to anyone but our customers. **KERN** is active worldwide and has relationships with its customers that have been going on for decades.

KERN - partner of specialist dealers

We are noted for our traditionally close ties to specialist dealers. Our comprehensive network of specialist dealers provides advice, sales and service from one source on the spot. In this way we are fast, efficient and price competitive.

Our central message

We strive to manage with very few rules. Working with **KERN** is easy. Service to the customer never stops at **KERN**, we help wherever we can. These efforts to satisfy customers perhaps provide a root of our long history.

Balingen, March 2003

Martin Sauter
Martin Sauter
Managing Director

Read-out d	Weighing Range Max	Page	Model KERN	Price € excl. VAT ex works								
0,01/0,1mg	60/210 g	27	770-60	3400,-	■	■		■	■	■		■
	83 g	26	ABS 80-4	1500,-		■	■	■	■			■
	83 g	26	ABJ 80-4M	1840,-	■	■		■	■			■
	120 g	26	ABS 120-4	1680,-			■	■	■			■
	120 g	26	ABJ 120-4M	1940,-	■	■		■	■			■
	120 g	27	770-12	2070,-	■	■		■	■	■	■	■
	120 g	27	770-13	1890,-			■	■	■	■	■	■
	120 g	28	ARS 120-4	2120,-			■	■	■	■	■	■
	120 g	28	ARJ 120-4M	2420,-	■	■		■	■	■	■	■
	220 g	26	ABS 220-4	1860,-			■	■	■			■
	220 g	26	ABJ 220-4M	2160,-	■	■		■	■			■
	220 g	27	770-14	2350,-	■	■		■	■	■	■	■
	220 g	27	770-15	2170,-			■	■	■	■	■	■
	220 g	28	ARS 220-4	2370,-			■	■	■	■	■	■
0,001g	220 g	28	ARJ 220-4M	2670,-	■	■		■	■	■	■	■
	50 g	24	MLB	1780,-			■		■			
	120 g	25	RH	2470,-			■		■			
	150 g	14	EW 150-3M	810,-	■		■		□			
	220 g	15	EG220-3NM	980,-	■	■		■	■			■
	320 g	22	PRS 320-3	1460,-			■	■	■	■	■	■
	320 g	22	PRJ 320-3M	1860,-	■	■		■	■	■	■	■
	410 g	17	PB 400-3	980,-			■					
	410 g	20	GS 410-3	1550,-			■	■	■	■	■	■
	410 g	20	GJ 410-3M	1720,-	■	■		■	■	■	■	■
	420 g	15	EG420-3NM	1080,-	■	■		■	■			■
	620 g	15	EG620-3NM	1430,-	■	■		■	■			■
	620 g	22	PRS 620-3	1960,-			■	■	■	■	■	■
	620 g	22	PRJ 620-3M	2360,-	■	■		■	■	■	■	■
0,01g	1220 g	22	PRJ1200-3	2950,-	■	■		■	■	■	■	■
	60 g	8	CM 60-2N	165,-			■				■	
	101 g	56	150-23	112,-								
	301 g	56	150-13	162,-								
	200 g	12	440-33N	320,-			■	■	■		■	■
	610 g	13	KB 600-2	450,-			■	■	■		■	■
	600 g	14	EW 600-2M	630,-	■		■		□			
	610 g	20	GJ 610-2M	1510,-	■	■		■	■	■	■	■
	620 g	19	474-32	900,-	■		■	■	□			
	620 g	20	GS 620-2	1170,-			■	■	■	■	■	■
	650 g	16	572-33	610,-			■	■	■		■	■
	810 g	16	572-35	660,-			■	■	■		■	■
	1 500 g	14	EW 1500-2M	810,-	■		■		□			
	2 000 g	18	470-36	1175,-	■		■	■	□		■	■
0,02g	3 000 g	14	EW 3000-2M	940,-	■		■		□			
	4 100 g	17	PB 4000-2	1030,-			■		■			
	4 100 g	20	GS 4100-2	1550,-			■	■	■	■	■	■
	4 100 g	20	GJ 4100-2M	1720,-	■	■		■	■	■	■	■
	4 200 g	22	PRS 4200-2	1690,-			■	■	■	■	■	■
	4 200 g	22	PRJ 4200-2M	1980,-	■	■		■	■	■	■	■
	5 000 g	18	470-38	1420,-	■		■		□		■	■
	6 200 g	22	PRS 6200-2	2330,-			■	■	■	■	■	■
	6 200 g	22	PRJ 6200-2M	2730,-	■	■		■	■	■	■	■
0,05g	600 g	44	EC 600-2	770,-			■	■				
	101 g	56	150-83	70,-								
	301 g	56	150-73	97,-								
0,1g	3 000 g	50	DS 3K0.05	810,-			■	■	■	□	■	■
	10 g	56	281-101	39,-								
	120 g	8	TCB 120-1	72,-								
	120 g	9	TMB 120-1	65,-			■					
	150 g	8	CM 150-1N	80,-			■				■	
	200 g	10	EMB 200-1	70,-								
	250 g	9	TMB 250	85,-			■					
	320 g	8	CM 320-1N	105,-			■				■	
	400 g	10	442-43N	115,-								
	400 g	12	440-43N	180,-			■	■	■		■	■

Read-out d	Weighing Range Max	Page	Model KERN	Price € excl. VAT ex works								
0,1g	600 g	46	∴ CGB 0.6K0.1	510,-			■	■	□			
	1 000 g	12	440-45N	250,-			■	■	□		■	■
	2 000 g	12	440-47N	310,-			■	■	□		■	■
	2 610 g	56	▽ 173-23	185,-								
	3 000 g	37	FTB 3K0.1	560,-			■		□			
	3 000 g	47	FTC 3K0.1	690,-			■	■	□			
	4 000 g	12	440-49N	360,-			■	■	□		■	■
	6 000 g	14	EW 6000-1M	680,-	■		■		□			
	6 100 g	13	KB 6000-1	450,-			■	■	□		■	■
	6 100 g	20	GJ 6100-1M	1510,-	■	■		■	□	■	■	■
	6 200 g	19	474-42	980,-	■		■	■	□			
	6 200 g	20	GS 6200-1	1170,-			■	■	□	■	■	■
	6 200 g	22	PRS 6200-1	1300,-			■	■	□	■	■	■
	6 200 g	22	PRJ 6200-1M	1700,-	■	■		■	□	■	■	■
	6 500 g	16	572-45	610,-			■	■	□	■	■	■
	8 100 g	50	DS 8K0.1	810,-			■	■	□	■	■	■
	10 100 g	16	572-49	660,-			■	■	□	■	■	■
	10 200 g	22	PRS 10200-1	1550,-			■	■	□	■	■	■
	10 200 g	22	PRJ 10200-1M	1950,-	■	■		■	□	■	■	■
	15 000 g	18	470-46	1650,-	■		■	■	□	■	■	■
	30 100 g	51	880-22	3120,-	■	■		■	□	■	■	■
0,1/0,2g	50/100 g	9	462-41	140,-								
0,1/1g	250/360 g	9	TMB 360-1	90,-			■					
0,2g	5/24 kg	51	880-74	2710,-	■	■		■	□		■	■
	1 200 g	46	∴ CGB 1.2K0.2	510,-			■	■	□			
	6 000 g	44	EC 6000-1	770,-			■	■				
	6 000 g	37	FTB 6K0.2	560,-			■		□			
	6 000 g	47	∴ FTC 6K0.2	690,-			■	■	□			
	6 000 g	38	ITB 6K0.2 IP	700,-			■		□			
	6 000 g	38	ITS 6K0.2 IP	830,-			■	■				
	6 000 g	38	ITT 6K0.2 IP	1110,-			■	■	□		■	■
	16 000 g	50	DS 16K0.2	810,-			■	■	□	■	■	■
0,25g	16 100 g	16	572-57	660,-			■	■	□		■	■
0,5g	30 g	56	▽ 281-151	32,-								
	60 g	56	▽ 281-201	32,-								
	1 500 g	42	FOB 1.5K0.5	370,-			■					
	1,5/3kg	37	FTB 3K0.5DM	560,-	■		■		□			
	1,5/3kg	47	∴ FTC 3K0.5DM	690,-	■		■	■	□			
	3 000 g	30	CB 3K0.5N	210,-			■	■	□		■	■
	3 000 g	46	∴ CGB 3K0.5	510,-			■		□			
	6 000 g	34	DE 6K0.5N	260,-			■	■	□	■	■	■
	15 000 g	37	FTB 15K0.5	560,-			■		□			
	15 000 g	37	FTB 15K0.5L	640,-			■		□			
	15 000 g	47	∴ FTC 15K0.5	690,-			■	■	□			
	15 000 g	38	ITB 15K0.5 IP	730,-			■		□			
	15 000 g	38	ITS 15K0.5 IP	860,-			■	■	□			
	15 000 g	38	ITT 15K0.5 IP	1140,-			■	■	□		■	■
	36 000 g	50	DS 36K0.5	810,-			■	■	□	■	■	■
	100 g	56	▽ 281-301	32,-								
	1 000 g	8	CM 1K1N	80,-			■				■	
1g	1 000 g	42	FOB 1K1M	370,-	■		■					
	2 000 g	10	EMB 2000-0	55,-								
	1,5/3kg	32	GAB 3K1DM	300,-	■		■					
	3 000 g	45	∴ VC 3K1M	510,-	■		■	■				
	3 000 g	42	FOB 3K1	370,-			■					
	3 000 g	34	DE 3K1N	205,-			■	■	□	■	■	■
	4 000 g	10	442-51N	95,-								
	4 000 g	12	440-51N	170,-			■	■	□		■	■
	3/6 kg	37	FTB 6K1DM	560,-	■		■		□			
	3/6 kg	47	∴ FTC 6K1DM	690,-	■		■	■	□			
	3/6 kg	38	ITB 6K1DIPM	700,-	■		■		□			
	3/6 kg	38	ITS 6K1DIPM	830,-	■		■	■	□		■	■
	3/6 kg	38	ITT 6K1DIPM	1110,-	■		■	■	□		■	■
	6 000 g	46	∴ CGB 6K1	630,-			■	■	□			

Read-out d	Weighing Range Max	Page	Model KERN	Price € excl. VAT ex works								
1g	6 000 g	12	440-53N	210,-			■	■	□		■	■
	6 000 g	30	CB 6K1N	210,-			■	■	□		■	■
	6 000 g	43	FIS 6K1IP	1550,-			■	■	□		■	
	12 000 g	19	474-54	870,-	■		■	■	□			
	12 000 g	44 ∴	EC 12K1	750,-			■	■				
	12 000 g	30	CB 12K1N	230,-			■	■	□		■	■
	12 000 g	34	DE 12K1N	260,-			■	■	□	□	■	■
	30 100 g	51	880-32	2710,-	■	■		■	□		■	■
	35 000 g	37	FTB 35K1	640,-			■		□			
	35 000 g	47 ∴	FTC 35K1	770,-			■	■	□			
	35 000 g	38	ITB 35K1 IP	770,-			■		□			
	35 000 g	38	ITS 35K1 IP	900,-			■	■	□			
	35 000 g	38	ITT 35K1 IP	1180,-			■	■	□		■	
2g	65 000 g	50	DS 65K1	990,-			■	■	□		■	■
	300 g	56 ▽	281-401	34,-								
	2 kg	42	FOB 2K2M	370,-	■		■					
	3/6 kg	32	GAB 6K2DM	300,-	■		■					
	6 kg	42	FOB 6K2	370,-			■					
	6 kg	34	DE 6K2N	205,-			■	■	□	□	■	■
	6 kg	43	FIS 6K2IPM	1490,-	■		■	■	□		■	
	6 kg	45 ∴	VC 6K2M	510,-	■		■	■				
	12 kg	43	FIS 12K2IP	1610,-			■	■	□		■	
	6/15 kg	37	FTB 15K2DM	560,-	■		■		□			
	6/15 kg	47 ∴	FTC 15K2DM	690,-	■		■	■	□			
	6/15 kg	38	ITB 15K2DIPM	730,-	■		■		□			
	6/15 kg	38	ITS 15K2DIPM	860,-	■		■	■	□			
	6/15 kg	38	ITT 15K2DIPM	1140,-	■		■	■	□		■	
	16 kg	46 ∴	CGB 16K2	630,-			■	■	□			
	24 kg	34	DE 24K2N	260,-			■	■	□	□	■	■
	24 kg	30	CB 24K2N	230,-			■	■	□		■	■
	60 kg	37	FTB 60K2	640,-			■		□			
	60 kg	47 ∴	FTC 60K2	770,-			■	■	□			
5g	60 kg	38	ITB 60K2LIP	910,-			■		□			
	60 kg	38	ITS 60K2LIP	980,-			■	■	□			
	60 kg	38	ITT 60K2LIP	1270,-			■	■	□		■	
	121 kg	50	DS 120K2	990,-			■	■	□		■	■
	600 g	56 ▽	281-451	34,-								
	5 kg	52 ⚡	MH 5K5	40,-								
	5 kg	10	EMB 5K5	50,-								
	5 kg	42	FOB 5K5M	370,-	■		■					
	7/15 kg	32	GAB 15K5DM	350,-	■		■					
	15 kg	34	DE 15K5N	205,-			■	■	□	□	■	■
	15 kg	43	FIS 15K5IPM	1550,-	■		■	■	□		■	
	15 kg	45 ∴	VC 15K5M	510,-	■		■	■				
	30 kg	43	FIS 30K5 IP	1740,-			■	■	□		■	
	34 kg	46 ∴	CGB 34K5	630,-			■	■	□			
	15/35 kg	37	FTB 35K5DM	640,-	■		■		□			
	15/35 kg	47 ∴	FTC 35K5DM	770,-	■		■	■	□			
	15/35 kg	38	ITB 35K5DIPM	770,-	■		■		□			
	15/35 kg	38	ITS 35K5DIPM	900,-	■		■	■	□			
10g	15/35 kg	38	ITT 35K5DIPM	1180,-	■		■	■	□		■	
	60 kg	34	DE 60K5N	260,-			■	■	□		■	■
	150 kg	38	ITB 150K5IP	960,-			■		□			
	150 kg	38	ITS 150K5IP	1050,-			■	■	□			
	150 kg	38	ITT 150K5IP	1330,-			■	■	□		■	
	1 kg	56 ▽	281-601	34,-								
	10 kg	52 ⚡	MH 10K10	40,-								
	10 kg	31	ECB10K10	140,-								
10g	15/30 kg	32	GAB 30K10DM	350,-	■		■					
	30 kg	43	FIS 30K10IPM	1680,-	■		■	■	□		■	
	30 kg	36	VB 30K10M	500,-	■		■					
	30 kg	45 ∴	VC 30K10M	510,-	■		■	■				
	36 kg	34	DE 36K10N	205,-			■	■	□	□	■	■

Read-out d	Weighing Range Max	Page	Model KERN	Price € excl. VAT ex works								
10g	30/60 kg	37	FTB 60K10DM	640,-	■		■		□			
	30/60 kg	47 ∴	FTC 60K10DM	770,-	■		■	■	□			
	30/60 kg	38	ITB 60K10DLIPM	910,-	■		■		□			
	30/60 kg	38	ITS 60K10DLIPM	980,-	■		■		□			
	30/60 kg	38	ITT 60K10DLIPM	1270,-	■		■	■	□		■	
	60 kg	43	FIS 60K10 IP	2270,-			■	■	□		■	
	64 kg	46 ∴	CGB 64K10	630,-			■	■	□			
	300 kg	38	ITB 300K10IP	1290,-			■		□			
	300 kg	38	ITS 300K10IP	1440,-			■	■	□			
	300 kg	38	ITT 300K10IP	1730,-			■	■	□		■	
20g	2 500 g	56 ▽	281-752	34,-								
	15 kg	52 ⚖	CH 15K20	65,-								
	20 kg	31	ECB 20K20	140,-								
	35 kg	33	EOB 35K20	170,-								
	60 kg	34	DE 60K20N	205,-			■	■	□		■	■
	60 kg	43	FIS 60K20IPM	2210,-	■		■	■	□		■	
	60 kg	36	VB 60K20M	520,-	■		■					
	60 kg	54 ⚖	HUS 60K20	620,-			■					
	120 kg	43	FIS 120K20IP	2460,-			■	■	□		■	
	60/150 kg	38	ITB 150K20DIPM	960,-	■		■		□			
50g	60/150 kg	38	ITS 150K20DIPM	1050,-	■		■	■	□			
	60/150 kg	38	ITT 150K20DIPM	1330,-	■		■	■	□		■	
	5 kg	56 ▽	285-052	82,-								
	20 kg	53 ⚖	HCB 20K50	110,-								
	50 kg	52 ⚖	CH 50K50	70,-								
	50 kg	31	ECB 50K50	140,-								
	60 kg	33	EOB 60K50	170,-								
	150 kg	34	DE 150K50N	205,-			■	■	□		■	■
	150 kg	43	FIS 150K50IPM	2400,-	■		■	■	□		■	
	150 kg	36	VB 150K50M	550,-	■		■					
100g	150 kg	54 ⚖	HUS 150K50	660,-			■					
	150/300kg	38	ITB 300K50DIPM	1290,-	■		■		□			
	150/300kg	38	ITS 300K50DIPM	1440,-	■		■	■	□			
	150/300kg	38	ITT 300K50DIPM	1730,-	■		■	■	□		■	
	10 kg	56 ▽	285-102	83,-								
	50 kg	52 ⚖	CH 50K100	55,-								
	50 kg	53 ⚖	HCB 50K100	120,-								
	150 kg	33	EOB 150K100	170,-								
	150 kg	33	EOS 150K100XL	500,-								
	300 kg	34	DE 300K100N	330,-			■	■	□		■	■
200g	300 kg	36	VB 300K100M	740,-	■		■					
	300 kg	33	EOB 300K100	190,-								
	300 kg	54 ⚖	HUS 300K100	710,-			■					
	20 kg	56 ▽	285-202	87,-								
	100 kg	53 ⚖	HCB 100K200	140,-								
	300 kg	33	EOS 300K200XL	500,-								
	600 kg	54 ⚖	HUS 600K200	750,-			■					
	600 kg	40	ITB 600K200M	2620,-	■		■		□			
	600 kg	40	ITS 600K200M	2680,-	■		■	■	□			
	600 kg	40	ITT 600K200M	2860,-	■		■	■	□		■	
500g	35 kg	56 ▽	285-352	91,-								
	50 kg	56 ▽	285-502	112,-								
	200 kg	53 ⚖	HCB 200K500	160,-								
	1 000 kg	55 ⚖	HUM 1000K500	1190,-								
	1 500 kg	40	ITB 1500K500M	2620,-	■		■		□			
	1 500 kg	40	ITS 1500K500M	2680,-	■		■	■	□			
1000g	1 500 kg	40	ITT 1500K500M	2860,-	■		■	■	□		■	
	100 kg	56 ▽	285-802	183,-								
	3 000 kg	55 ⚖	HUM 3000K1000	1450,-								
2000g	5 000 kg	55 ⚖	HUM 5000K2000	1990,-								
5000g	7 500 kg	55 ⚖	HUM 7500K5000	2200,-								

Wherever you have to weigh...

...with our pocket balances and portables you have permanent reliable precision in your pocket. When mobility is the order of the day KERN is the right partner for you.

POCKET BALANCES



Down to business - pocket sized weighing



2
Years
Warranty

24
Hours
Delivery



Turnable weighing pan as protection against overload



Transport box and weighing container included

Small and easy to use



Ready for use
Button batteries (2 x LR 44) inclusive. AUTO-OFF function after 3 min to preserve the battery

Model	Read-out d	Weighing-range Max	Price € excl. of VAT ex works
KERN TCB 120-1	0,1 g	120 g	72,-

Total balance Ø 80 mm, 14 mm height.
Net weight approx. 50 g.

Protected in a hardcase - now with a pocket calculator



* **DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days



Now with a pocket calculator

Snap lid
as protection against pressure and dust



Ready for use
Batteries size AAA (3 x 1.5V) inclusive. AUTO-OFF function after 4 min to preserve the battery

Model	Read-out d	Weighing-range Max	Price € excl. of VAT ex works	OPTION Certificate DKD
KERN	g	g		KERN €
CM 60-2N	0,01	60	165,-	963-116 75,-
CM 150-1N	0,1	150	80,-	963-116 75,-
CM 320-1N	0,1	320	105,-	963-116 75,-
CM 1 K1N	1	1000	80,-	963-116 75,-

Total balance W x D x H 85 x 130 x 25 mm.
Net weight approx. 180 g.

Test weight included
only with KERN CM 60-2N.
Balance test software
"BalanceCal Light" free
of charge on the internet,
KERN SBD-1.0L



Adjusting programme CAL
guarantees high quality

STANDARD



The bargain priced travelling balance - for only EUR 65.00

Snap lid

as protection against pressure and dust, operating instructions imprinted in English, French and Spanish



Ready for use

Batteries size AAA (3 x 1.5V) inclusive. AUTO-OFF function after 4 min to preserve the battery

Model	Read-out d	Weighing-range Max	Price € excl. of VAT ex works
KERN	g	g	
TMB 120 - 1	0,1	120	65,-
TMB 250 - 1	0,1	250	85,-
TMB 360 - 1	0,1/10,2	250/360	90,-

7 Fine range available across the entire weighing range by taring. Total balance WxDxH 80x135x22 mm. Net weight approx. 140 g.



KERN TMB
Pocket balance

2
Years
Warranty

24
Hours
Delivery

POCKET BALANCES



Weighing receptacle included W x D x H
45 x 45 x 5 mm

STANDARD



The traditional model that has proved itself all over the world - subject to prior sales!



Deep weighing surface
secures rolling objects to be weighed

Model	Read-out d	Weighing-range Max	Price € excl. of VAT ex works
KERN	g	g	
462-41	0,1 to 50g 0,2 to 100g	100	140,-

7 Fine range available across the entire weighing range by taring. Total balance WxDxH 155x75x15 mm. Net weight approx. 170 g.

KERN 462
Pocket balance

2
Years
Warranty

24
Hours
Delivery

Fast display
Stabilisation time only approx. 2 sec



Weigh in function
simplifies mixing

Soft case inclusive
(without picture)



Ready for use
Button batteries (3 x LR 44) inclusive. AUTO-OFF function after 3 min to preserve the battery. Operation time approx. 360 days

2
Years
Warranty

24
Hours
Delivery

Battery model – low cost solution

Socket standard for
mains adapter

STANDARD



OPTION



Ready for use

Batteries size AAA (3 x 1.5V)
inclusive. AUTO-OFF
function after 4 min to
preserve the battery



Weigh in function
simplifies mixing

Model	Read- out d	Weighing- range Max	Price € excl. of VAT ex works
KERN	g	g	
EMB 200-1	0,1	200	70,-
EMB 2000-0	1	2000	55,-
EMB 5 K 5	5	5000	50,-

Total balance W x D x H 170 x 240 x 38 mm.
Net weight approx. 600 g.

Mains adapter
KERN 440-902, € 27,-

Large LCD display
with digit height 16 mm

2
Years
Warranty

24
Hours
Delivery

School balance with large weighing range

STANDARD



Weighing ranges increased

Socket standard for
mains adapter



Weigh in function
simplifies mixing



Battery supply possible
Block-battery (9 V). AUTO-
OFF function after 5 min to
preserve the battery

Model	Read- out d	Weighing- range Max	Price ex works excl. VAT	incl. mains adapter €	incl. battery no mains adapter €
KERN	g	g			
442-43N	0,1	400		115,-	–
442-432N	0,1	400		–	90,-
442-51N	1	4000		95,-	–
442-512N	1	4000		–	70,-

Total balance W x D x H 145 x 185 x 55 mm.
Net weight approx. 500 g.

However accurate it might be...

...you must be able to rely on your balance 100%. We ensure you have precision to the 100,000th of a gramme exactly. Reliable quality from KERN.



Ideal when a „large model“ is not required

***DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days



- New model
- Now with data interface RS 232
- Further weighing units
- Function to determine percentages
- Weighing range increased



Test weight incl.

Option: DKD-
Certificate, KERN
960-477, € 25,-
Balance test software
"BalanceCal Light"
free of charge on
the internet,
KERN SBD-1.0L



Weighing plate 130 x 130
mm with KERN 440-43N,
440-45N and 440-47N



Weighing plate Ø 105 mm
with KERN 440-33N



Battery supply possible

Block-battery (9 V) not stan-
dard. AUTO-OFF function
after 5 min to preserve the
battery

Data transfer
e.g. to printer or PC

Protective working

cover over user field and
casing standard. Can be
reordered any time, € 10,-
for weighing plates with size:

Ø 105 mm
KERN 440-330-002

130 x 130 mm
KERN 440-450-002

170 x 150 mm
KERN 440-530-002



Accu-supply,
external, approx. 230 h
KERN KS-A01, €190,-



① **Statistics printer,**
KERN YKT-01, € 590,-

Matrix needle printer,
no picture,
KERN 911-013, € 330,-
see page 57

STANDARD



OPTION



Model	Read- out g	Weighing- range Max g	Repro- duci- bility g	Linea- rity g	Min. piece weight at piece counting g	Weighing- plate stainless steel mm	Price € excl. of VAT ex works	OPTION	
								Certificate	DKD
KERN								KERN	€
440-33N	0,01	200	0,01	± 0,02	0,02	Ø 105	320,-	963-116	75,-
440-43N	0,1	400	0,1	± 0,2	0,2	130 x 130	180,-	963-116	75,-
440-45N	0,1	1000	0,1	± 0,2	0,2	130 x 130	250,-	963-116	75,-
440-47N	0,1	2000	0,1	± 0,2	0,2	130 x 130	310,-	963-116	75,-
440-49N	0,1	4000	0,1	± 0,3	0,2	170 x 150	360,-	963-116	75,-
440-51N	1	4000	1	± 2	2	170 x 150	170,-	963-116	75,-
440-53N	1	6000	1	± 2	2	170 x 150	210,-	963-117	90,-

Total balance W x D x H 165 x 230 x 80 mm. Net weight
approx. 1kg. LCD display with digit height 15 mm.

PCS: Piece counting with reference 5, 10, 25, 50 pieces.

UNITS: Further weighing units: dwt, mom, tol.

Rising star from the basic level

STANDARD



only with ①



OPTION



- Weighing range increased
- Further weighing units



* Delivery period + 7 days

Weighing plate
stainless steel
170 x 150 mm

Max 6 100 g d = 0,1 g

KERN KB

0.09

ON
OFF

PRINT
NO+

REF
YES+

MODE

REZ

UNIT

TARE
ESC

Test weight incl.

Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light" free of
charge on the internet,
KERN SBD-1.0L

**Self-explanatory user
guide** via YES/NO dialogue
in the display

**Numerical tare
deduction** for the known
container weight. Useful
when checking loads

**Protective working
cover** over user field and
casing standard. Can be
reordered any time, **€ 10,-**,
for weighing plates with size:
130 x 130 mm
KERN 440-450-002
170 x 150 mm
KERN 440-530-002



Precise counting
Step by step the automatic
reference optimisation
improves the average value
of the piece weight



Accu-supply,
external, approx. 50 h
KERN KS-A01, € 190,-

Conversions
freely programmable, e.g.
display directly in thread
length g/m, paper weights
g/m² or similar

① **Statistics printer,**
KERN YKT-01, € 590,-

Matrix needle printer,
no picture,
KERN 911-013, € 330,-
see page 57

Weighing plate 130 x 130
mm with **KERN KB 600-2**

Model	Read-out d	Weighing-range Max	Repro- ducibility	Linea- rity	Min. piece weight at piece counting	Weighing- plate stainless steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD
KERN	g	g	g	g	g			KERN €
KB 600-2	0,01	610	0,01	± 0,03	0,03	130 x 130	450,-	963-116 75,-
KB 6000-1	0,1	6100	0,1	± 0,3	0,3	170 x 150	450,-	963-117 90,-

Total balance W x D x H 165 x 230 x 80 mm.
Net weight approx. 1kg. LCD display with digit height 9 mm.

PCS: Piece counting with reference 1, 5, 10, 20 pieces.
UNITS: Further weighing units: lb, oz, ozt, dwt, tLT, tLH.

Verifiable combination series, e.g. as laboratory, jewellery or gold balance



* Delivery period
+ 7 days



Test weight inclusive

Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light" free
of charge on the web
KERN SBD-1.0L



Carat balances

in very compact sizes.
Display can be switched
between ct and g.
Glass draft shield with 3
sliding doors, standard
KERN EW 750-C2M

Capacity display

A bar graph shows the cur-
rent available weighing range



Round draft shield
standard, Ø 160 mm,
height 60 mm with
KERN EW 150

Large LCD display

with digit height 16 mm



Round weighing plate
Ø 140 mm with **KERN**
EW 600, 1500, 3000

Protective working

cover over user field and
casing standard.
Can be reordered any time,
KERN EG-A02, € 10,-



Accu-supply,
internal, approx. 32 h,
KERN EW-A02, € 100,-



Data interface,
KERN EW-A01, € 90,-

STANDARD



OPTION



Only **one**
option
possible

Model KERN 	Read- out	Weighing- range	Verific. value	Min. load	Repro- ducibility	Linea- rity	Weighing- plate stainl. steel mm	Price € excl. of VAT ex works	Verifi- cation KERN	ALTERNATIVE		
	 d	 Max	 e	 Min		g				 M II	Certifi- cate KERN	 DKD
	g	g	g	g	g					€		€
EW 150-3M	0,001	150	0,01	0,02	0,002	± 0,003	Ø 110	810,-	950-116	 1	61,-	963-116 75,-
EW 600-2M	0,01	600	0,1	0,5	0,01	± 0,02	Ø140	630,-	950-116	 1	61,-	963-116 75,-
EW 1500-2M	0,01	1500	0,1	0,5	0,01	± 0,02	Ø140	810,-	950-116	 1	61,-	963-116 75,-
EW 3000-2M	0,01	3000	0,1	0,5	0,01	± 0,02	Ø140	940,-	-	 2		963-116 75,-
EW 6000-1M	0,1	6000	1	5	0,1	± 0,2	172x142	680,-	950-117	 1	83,-	963-117 90,-
Carat balance												
EW 750-C 2M	0,01 ct	750 ct	0,1 ct	0,2 ct	0,01 ct	± 0,015 ct	Ø 110	950,-	950-116	 1	61,-	963-116 75,-

1 Verification in the factory, location of use with post
code required, additional costs.

2 Verification only possible at location of use.

Total balance W x D x H 180x230x85mm.

Net weight approx. 2 kg. Weighing space draft shield
carat balance W x D x H 160x140x140mm.

STANDARD



OPTION



The mg-balance with the weighing range reserve



Serial draft shield, removable lid on the top with an opening for pipetting. Weighing space W x D x H 158 x 130 x 78 mm



Capacity display

A bar graph shows the current available weighing range

Protective working cover

over user field and casing standard. Can be reordered any time, KERN EG-A05, € 10,-

Glass draft shield

with 3 sliding doors. Weighing space W x D x H 160 x 140 x 140 mm, for KERN EW 150-3M, KERN EG-A01, €140,-. For all models KERN EG-N, EG-A03, €140,-



Accu supply

internal, operated by rechargeable batteries, operation time approx. 32 h, charging time approx. 12 h, battery discharging status in the display KERN EG-A04, € 100,-



Internal adjusting control (CAL)

with a knob on the right side. Guarantees high accuracy and makes the location irrelevant



Matrix needle printer

KERN 911-013, € 330,- see page 57



Interesting facts about density determinations (Hydrostatic weighing)

Density determinations (specific weight) of liquids and solids with a lift measurement are very precise.

Density determination of liquids

With a buoyancy measurement with help of a glass plummet, 10 cm³, readout 0.0001 g/cm³.

Density determination of solids

The density results out of the relation **weight : volume**. The weight is the result of weighing the specimen in air. The volume is determined by the buoyancy of a specimen dipped in a liquid (Archimedean principle).

Applications

- Material analysis
- Cavities in solid objects
- Density of porous materials
- Finished packaging control when the product is sold by volume. This is calculated by division **weight : density**.



Set for density determination of liquids and solids

suitable only for models with readout d = 0,001 g. W x D x H 135 x 150 x 190 mm KERN EW-A04, € 510,-

Model KERN	Read-out d	Weighing-range Max	Verific. value e	Min. load Min	Repro-ducibility	Linearity	Min. piece weight at piece count	Weighing-plate stainl.steel mm	Price € excl. of VAT ex works	ALTERNATIVE			
										Veri-fication KERN	III M	Certi-ficate KERN	DKD
	g	g	g	g	g	g	g	g			€	€	€
EG 220-3NM	0,001	220	0,01	0,02	0,001	± 0,002	0,001	Ø 120	980,-	950-116	61,-	963-116	75,-
EG 420-3NM	0,001	420	0,01	0,02	0,001	± 0,003	0,001	Ø 120	1080,-	950-116	61,-	963-116	75,-
EG 620-3NM	0,001	620	0,01	0,1*	0,001	± 0,004	0,001	Ø 120	1430,-	950-101	139,-	963-101	125,-

I Verification in the factory. Net weight approx. 2 kg.

Total balance including draft shield W x D x H

235 x 185 x 165 mm. *Verification class I

PCS: Piece counting with reference 10, 30, 50, 100 pieces.

UNITS: Further weighing units: ct, oz, lb, ozt, GN, tLT, tola.

Allrounder – e.g. as counting, reference or checking balance...



* Delivery period + 7 days

Conversions

freely programmable, e.g. display directly in thread length g/m, paper weights g/m² or similar

Self-explanatory user guide via YES/NO dialogue in the display

Test weight incl.

Option: DKD-Certificate, KERN 960-477, € 25,-
Balance test software "BalanceCal Light" free of charge on the internet, KERN SBD-1.0L



Precise counting

Step by step the automatic reference optimisation improves the average value of the piece weight



Accu-supply, external, approx. 50 h, KERN KS-A01, € 190,-

Protective working cover

over user field and casing standard. Can be reordered any time, KERN 572-A02, € 10,-

Numerical tare deduction

for the known container weight. Useful when checking loads



Weighing plate Ø 150 mm with KERN 572-33 and 572-35



Set for underfloor weighing for models KERN 572-49 and 572-49 with platform, clamp, hook KERN 572-A01, € 100,-



Underfloor weighing board, see page 57, KERN 904-101, € 310,-



① **Statistics printer**, KERN YKT-01, € 590,-

Matrix needle printer, no picture, KERN 911-013, € 330,- see page 57

Model	Read-out d g	Weighing-range Max g	Repro-ducibility g	Linearity g	Min. piece weight at piece count. g	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
								KERN	€
KERN 572-33	0,01	650	0,01	± 0,03	0,03	Ø 150	610,-	963-116	75,-
572-35	0,01	810	0,01	± 0,03	0,03	Ø 150	660,-	963-116	75,-
572-45	0,1	6 500	0,1	± 0,3	0,3	200 x 160	610,-	963-117	90,-
572-49	0,1	10 100	0,1	± 0,3	0,3	200 x 160	660,-	963-117	90,-
572-57	0,2	16 100	0,2	± 0,6	0,6	200 x 160	660,-	963-117	90,-

Total balance W x D x H 180 x 310 x 90 mm. Net weight approx. 2,5 kg. LCD display with digit height 14 mm.

PCS: Piece counting with reference 1, 5, 10, 20 pieces.
UNITS: Further weighing units: lb, oz, ozt, dwt, tLT, tLH, tLM.

STANDARD



only with ①



OPTION



STANDARD



only with ①

Strong, if large and continuous weighing ranges are required

KERN PB
Precision balance

***DKD**
Certificate possible

3
Years Warranty

24
Hours Delivery

* Delivery period
+ 7 days



• Price reduction

Weighing plate
stainless steel
Ø 160 mm

Max 4100g d=0,01g

KERN
PB



TARE
POWER

MODE

Test weight included
Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light"
free of charge on the web,
KERN SBD-1.0L

Very fast display
with luminescent LED
digits, 15 mm high

Data hold function
The display is "frozen"
via the MODE key until the
TARE key is pressed again

Metal casing
sturdy and stable

Protective working cover
over user field
and casing standard.
Can be reordered any time,
KERN PB-A01, € 10,-

Ceramic quartz weighing system for quick,
stable and precise results

① **Statistics printer,**
KERN YKT-01, € 590,-

Matrix needle printer,
no picture,
KERN 911-013, € 330,-
see page 57

Round draft shield standard,
glass with metal top,
Ø 150 mm, height 80 mm
with **KERN PB 400-3**

Modell	Read-out d	Weighing-range Max	Repro- duci- bility	Linea- rity	Weighing- plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN	g	g	g	g			KERN	€
PB 400-3	0,001	410	0,001	± 0,002	Ø 120	😊 980,-	963-116	75,-
PB 4000-2	0,01	4100	0,01	± 0,02	Ø 160	1030,-	963-116	75,-

Total balance W x D x H 170 x 270 x 75 mm, without draft shield.
Net weight approx. 3,5 kg.

LABORATORY BALANCES

Sturdy checking balance with freely programmable limiting values

M
Verification possible

DKD
Certificate possible

3
Years Warranty

24
Hours Delivery

* Delivery period + 7 days



Test weight incl.

Option: DKD-Certificate, **KERN 960-477, € 25,-**
Balance test software "BalanceCal Light" free of charge on the internet, **KERN SBD-1.0L**

Capacity display

A bar graph shows the current available weighing range

Metal casing

sturdy and stable
WxDxH 230x300x90 mm

Protective working cover

over user field and casing standard.
Can be reordered any time, **KERN 470-903, € 10,-**



Programming limiting values

for check weighing. The input is possible in grammes, pieces or %. A swinging bar graph helps as a visual aid at dispensing or grading, supported by an acoustic signal.

A weighing sum memory

adds up all individual weighing operations

Underfloor weighing board

see page 57, **KERN 904-101, € 310,-**



Data interface, KERN 470-913, € 220,-



Accu supply, internal, 5h, KERN 470-906, € 230,-



Statistics printer, KERN YKT-01, € 590,-

Matrix needle printer

no picture, **KERN 911-013, € 330,-**
see page 57
Both only in connection with an optional data interface

STANDARD



OPTION



Weighing plate Ø 170 mm with **KERN 470-36**



Model	Read-out d	Weighing-range Max	Verific.-value e	Min. load Min	Repro-ducibility	Linearity	Min. piece weight at piece count.	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	ALTERNATIVE				
										Verifi-cation KERN	M II €	Certifi-cate KERN	DKD €	
KERN	g	g	g	g	g	g	g							
470-36	0,01	2000	0,1	0,5	0,01	± 0,02	0,05	Ø 170	1175,-	-	2	-	963-116	75,-
470-38	0,01	5000	1	5	0,02	± 0,04	0,1	220x180	1420,-	950-116	1	61,-	963-116	75,-
	0,1													
470-46	0,1	15000	1	5	0,1	± 0,2	0,5	220x180	1650,-	950-117	1	83,-	963-117	90,-

1 Verification in the factory, location of use with post code required.

2 Verification only possible at location of use.

3 Readout not verified.

4 Readout verified.

PCS: Piece counting with reference 5, 10, 30, 100 pieces. Net weight approx. 8 kg.

STANDARD



OPTION



Verifiable even under industrial conditions in precision class II

KERN 474

Precision balance



* Delivery period + 7 days



Weighing plate
stainless steel
190 x 190 mm

Max 6200g e=1g
Min 5g d=0,1g

KERN
474

ON/OFF

S

F

TARE

Metal casing
sturdy and stable



Test weight included

Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light" free of
charge on the internet,
KERN SBD-1.0L



Programming limiting values

for check weighing.
The input is possible in
grammes



Accu-supply,
internal, approx. 5 h,
KERN 474-906, € 240,-

Protective working cover

over user field
and casing standard.
Can be reordered any time,
KERN 474-903, € 10,-



Data interface
KERN 470-913, € 130,-



Statistics printer,
KERN YKT-01, € 590,-

Matrix needle printer,
(no picture)
KERN 911-013, € 330,-
see page 57

Both only in connection with
an optional data interface

Model	Read-out d	Weighing-range Max	Verific.-value e	Min. load Min	Repro-ducibility	Linea-rity	Min. piece weight at piece count.	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	ALTERNATIVE				
										Verifi-cation KERN	M II	Certi-ficate KERN	DKD	
KERN	g	g	g	g	g	g	g	mm		€		€	€	
474-32	0,01	620	0,1	0,5	0,01	± 0,02	0,01	Ø 140	900,-	950-116	1	61,-	963-116	75,-
474-42	0,1	6200	1	5	0,1	± 0,2	0,1	190x190	980,-	950-117	1	83,-	963-117	90,-
474-54	1	12000	1	50	1	± 2	1	190x190	870,-	950-117	1	83,-	963-117	90,-

1 Verification in the factory, location of use with post code required.
Net weight approx. 3,5 kg. Permiss. ambient temp. +10 ... +30°C.

PCS: Piece counting with reference 10, 30, 50, 100 pieces.

"Pointing the way" standard in the upper laboratory class



* Delivery period
+ 7 days

Weighing plate
stainless steel
182 x 182 mm

Weighing plate
especially shock
absorbing

only
with ②



OPTION



Test weight incl.
Option: DKD-
Certificate, **KERN 960-
477, € 25,-**
Balance test software
"BalanceCal Light" free of
charge on the internet,
KERN SBD-1.0L

**Protective working
cover** over user field and
casing for weighing plates
with size:
Ø 80 and 115 mm
KERN GS-A11, € 26,-
182 x 182 mm
KERN GS-A12, € 26,-

Mixture
in connection with the prin-
ter **KERN 911-017** (see pa-
ge 21) an ascending number
can be given to every com-
ponent of a mixture

Fast display
responds quickly to the
slightest changes in weight.
Practical for manual dis-
pensing

Dynamic weighing
when weighing animals or
when there are strong vibra-
tions. Here the number of
measuring cycles is increa-
sed to form an adequate
average reading

Round draft shield
standard, glass with metal
top. Ø 165 mm, height
50 mm. Weighing plate
Ø 80 mm, with **KERN GS
410-3 and GJ 410-3M**

Weighing plates Ø 115 mm,
with **KERN GS 620-2 and
GJ 610-2M**

Weighing plates 182 x 182
mm, with **KERN GS 4100-2,
GS 6200-1, GJ 4100-2M
and GJ 6100-1M**

Accu-supply,
external, approx. 32 h,
KERN 770-906, € 280,-

②

Matrix needle printer with a 4 digit display, GLP capable. Only for models KERN GS/GJ, 770. With statistic functions such as totalizing, standard deviation, variance. Paper width 57 mm, paper length approx. 32 m, diameter of paper roll 60 mm. Dimensions WxDxH 150x230x60 mm. Electricity supply through built-in rechargeable batteries. Price without interface cable, **KERN 911-017, € 650,-**

Printout (Example)

n	12
$\bar{x}$	99.8 g
s	3.55 g
srel	3.57 %
Σx	1203.4 g
min	96.0 g
max	103.2 g
Diff	7.2 g
12-DEC-02	16:02:11



Second display, for the table, **KERN GS-A05, € 180,-**

Second display, transparent to lay on the overhead projector. No picture, **KERN GS-A04, € 375,-**

Loop for underfloor weighing
No picture, **KERN GS-A09, € 4,-**

Foot switch
for the commands: TARA, PRINT and others. No picture, **KERN GS-A03, € 163,-**



③ **Matrix needle printer,** Price without interface cable, **KERN 911-013, € 330,-** see page 57



Set for density determination of liquids and solids, suitable only for models with readout $d = 0,001$ g, **KERN GS-A02, € 510,-**



Underfloor weighing board with variably adjustable lower plate, see page 57, **KERN 904-101, € 310,-**



Draft shield with sliding glass doors left, right and top. Weighing space W x D x H 180 x 180 x 250 mm. Refittable on models KERN GS • GJ with readout $d = 0,001$ g, **KERN GS-A01, € 300,-**

Model KERN	Read- out d	Weighing- range Max	Verific. value e	Min. load Min	Repro- duci- bility	Linea- rity	Min.piece weight at piece count.	Weighing- plate stainl.steel mm	Price € excl. of VAT ex works	ALTERNATIVE			
										Verifi- cation KERN	M II €	Certi- cate KERN	DKD €
GS 410-3	0,001	410	—	—	0,001	± 0,002	0,005	Ø 80	1550,-	—	—	963-116	75,-
GS 620-2	0,01	620	—	—	0,01	± 0,01	0,05	Ø 115	1170,-	—	—	963-116	75,-
GS 4100-2	0,01	4100	—	—	0,01	± 0,02	0,05	182x182	1550,-	—	—	963-116	75,-
GS 6200-1	0,1	6200	—	—	0,1	± 0,1	0,5	182x182	1170,-	—	—	963-117	90,-

Model KERN	VERIFIABLE									1 Verification in the factory.			
										Verifi- cation KERN	1 €	Certi- cate KERN	1 €
GJ 410-3M	0,001	410	0,01	0,02	0,001	± 0,002	0,005	Ø 80	1720,-	950-116	1 61,-	963-116	75,-
GJ 610-2M	0,01	610	0,1	0,5	0,005	± 0,01	0,05	Ø 115	1510,-	950-116	1 61,-	963-116	75,-
GJ 4100-2M	0,01	4100	0,1	0,5	0,01	± 0,02	0,05	182x182	1720,-	950-116	1 61,-	963-116	75,-
GJ 6100-1M	0,1	6100	1	5	0,05	± 0,1	0,5	182x182	1510,-	950-117	1 83,-	963-117	90,-

Total balance W x D x H 205 x 300 x 85 mm.
Net weight approx. 3 kg. LCD display with digit height 11 mm.
Permissible ambient temperature +10 ... +30°C.

PCS: Piece counting with reference 10, 20, 50, 100 pieces.

UNITS: Further weighing units (only GS): mg, ct, GN, lb, oz, ozt, tLH, tLM.

Laboratory premium class – always up to date via internet



* Delivery period
+ 7 days



Test weight incl.

Option:
DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light"
free of charge on
the internet,
KERN SBD-1.0L



Serial glass draft shield

with removable metal lid
for models with readout
 $d = 0.001 \text{ g}$
WxDxH 150x150x60 mm



Weighing plate 200x200mm:
KERN PRS/PRJ 6200-1(M)
and **PRS/PRJ 10200-1(M)**

Metal casing
sturdy and stable

KERN
PRS

Weighing plate
stainless steel
170 x 170 mm

Max 320g $\pm 0.01\text{g}$
Min 0.02g $d = 0.001\text{g}$

ON/OFF

MENU

TARE

REF

PRINT

Fluorescence display
Strongly lighting, high
contrast

User guide

with plain text on the dis-
play, select the language
German, English or French

Capacity display

A bar graph shows the
current available weighing
range

STANDARD



OPTION



Software for models KERN PRS-PRJ, KERN ARS-ARJ. Update via internet.

Configuration menu

to define the basic functions

- Language: German, English or French
- Automatic internal adjusting (only KERN PRJ and ARJ) can be programmed to any time of the day. Subsequent automatic adjusting every 24 hours or after a temperature change of $> 2^\circ\text{C}$
- Interface setting as baud rate, parity, etc.
- Printing commands and formats
- Date and time
- Density determination

Application menu

to define the balance to the user requirements

- Counting with freely selectable reference quantity, automatic reference optimisation
- Call a second unit, e.g. ct
- Density determination

Individual user configuration

for a personal or user specific definition

Can be called up independently of the existing programme configuration of the balance as a closed unit.

Update via Internet - Future software updates, additional applications and other things can be loaded on to the balance through a PC with an internet link.

**Data interfaces:**

second RS 232,

KERN PR-A11, € 220,-

Analogue,

KERN PR-A13, € 370,-

20 mA current loop,

KERN PR-A12, € 220,-**Protection IP 65**

for PRS / PRJ 4200

and for all models with

readout $d=0,1$ g.Additional price **€ 210,-**.

Please indicate on your

order: wanted model with

accessory **IP65**, e.g.**PRJ 6200-1 IP65 M**

Second display, tiltable,
can be screwed to the back
of the balance. Stand includi-
ve, stand height 240 mm,
KERN PR-A10, € 440,-



Second display,
for the table, tiltable, cable
length approx. 1.5 m,
KERN PR-A09, € 410,-

**Accu-supply**,

internal, approx. 4 h

KERN PR-A22, € 275,-**Protective working**

cover over user field stand-

ard. Can be reordered any

time, **KERN PR-A25, € 10,-**

Statistics printer,
KERN YKT-01, € 590,-
see page 57



Matrix needle printer,
KERN 911-013, € 330,-
see page 57



Underfloor weighing
board, see page 57,
KERN 904-101, € 310,-



Hook for underfloor
weighing
KERN PR-A04, € 28,-

**Set for density**
determination

of liquids and solids.

Only suitable for models
with readout $d=0,001$ g,
consisting of:

- Board
- Beaker
- Thermometer
- Plummert
- Sifting pan

KERN PR-A02, € 550,-**Draft shield**with sliding glass doors left,
right and top.

Weighing space W x D x H

205 x 205 x 180 mm.

Refittable on all models with
readout $d=0,001$ g or $0,01$ g,**KERN PR-A01, € 215,-**

Model KERN	Read- out d g	Weighing- range Max g	Verific. value e g	Min. load Min g	Repro- ducibility g	Linea- rity g	Min.piece weight at piece count. g	Weighing- plate stainl. steel mm	Price € excl. of VAT. ex works	ALTERNATIVE			
										Verifi- cation KERN	M II €	Certifi- cate KERN	DKD €
PRS 320-3	0,001	320	-	-	0,001	± 0,0015	0,001	135 x 135	1460,-	-	-	963-116	75,-
PRS 620-3	0,001	620	-	-	0,001	± 0,0015	0,001	135 x 135	1960,-	-	-	963-116	75,-
PRS 4200-2	0,01	4200	-	-	0,01	± 0,015	0,01	170 x 170	1690,-	-	-	963-116	75,-
PRS 6200-2	0,01	6200	-	-	0,01	± 0,015	0,01	170 x 170	2330,-	-	-	963-117	90,-
PRS 6200-1	0,1	6200	-	-	0,1	± 0,1	0,1	200 x 200	1300,-	-	-	963-117	90,-
PRS 10200-1	0,1	10200	-	-	0,1	± 0,1	0,1	200 x 200	1550,-	-	-	963-117	90,-

Model KERN	VERIFIABLE									1 Verification in the factory.			
	Read- out d g	Weighing- range Max g	Verific. value e g	Min. load Min g	Repro- ducibility g	Linea- rity g	Min.piece weight at piece count. g	Weighing- plate stainl. steel mm	Price € excl. of VAT. ex works	Verifi- cation KERN	M II €	Certifi- cate KERN	DKD €
PRJ 320-3M	0,001	320	0,01	0,02	0,001	± 0,0015	0,001	135 x 135	1860,-	950-116	1 61,-	963-116	75,-
PRJ 620-3M	0,001	620	0,01	0,02	0,001	± 0,0015	0,001	135 x 135	2360,-	950-116	1 61,-	963-116	75,-
PRJ 1200-3*	0,001	1220	-	-	0,001	± 0,002	0,001	135 x 135	2950,-	-	-	963-116	75,-
PRJ 4200-2M	0,01	4200	0,1	0,5	0,01	± 0,015	0,01	170 x 170	1980,-	950-116	1 61,-	963-116	75,-
PRJ 6200-2M	0,01	6200	0,1	0,5	0,01	± 0,015	0,01	170 x 170	2730,-	950-117	1 83,-	963-117	90,-
PRJ 6200-1M	0,1	6200	1	5	0,1	± 0,1	0,1	200 x 200	1700,-	950-117	1 83,-	963-117	90,-
PRJ 10200-1M	0,1	10200	1	5	0,1	± 0,1	0,1	200 x 200	1950,-	950-117	1 83,-	963-117	90,-

Total balance W x D x H 210 x 340 x 85 mm.

Net weight approx. 5 kg. * Not verifiable.

UNITS: Further weighing units (only PRS): ct, lb, oz, ozt, dwt, GN, C.M.
Permissible ambient temperature +10 ... +30°C.



Application table

Many practical examples
in the service instructions

**2 quartz
halogen heaters**
each 200 W



10 plates for samples
inclusive

**Plates for samples,
of Aluminium,**
Ø 92 mm.
Unit of 80 pieces,
KERN MLB-A01, € 28,-



3 displays:

- temperature
- drying state in %
- drying time

Temperature calibration set consisting of
measurement sensor,
display device
KERN MLB-A03, € 200,-



**Adjusting programme
CAL**, external test
weights additional price

Round fibreglass filter,
e.g. for samples that splash
or become encrusted.
Unit of 100 pieces.
KERN RH-A02, € 45,-

Matrix needle printer,
KERN 911-013, € 330,-
see page 57

Dry measurement values

Readout	0,01 %
Repeatability, weight 1 g	0,2 %
Repeatability, weight 10 g	0,02 %

Display after drying

% humidity = weight reduction	0 - 100 %
% dry mass = residual weight	100 - 0 %
% ATRO	100 - 999 %

Weighing system

Readout	d	1 mg
Weighing range	Max	= maximal weight 50 g

Heater / temperature adjustment

Temperature range 50 - 160°C in steps of 1°C

Drying sequence / switch-off criteria

Fully automatic: drying until weight becomes constant.
Semiautomatic: drying ends when loss per unit of
time goes below theoretical value.

Manual: according to adjusted time 10min - 9h 50min
Check of measure value: Interval adjust. of 1 - 59 sec
(in combination with **RS 232** and printer **KERN 911-013**)

KERN MLB 50-3 Price excl. of VAT ex works € 1780,-

STANDARD



Moisture analyzing with a high weighing range 120 g

3
Years
Warranty

24
Hours
Delivery

Application table

Many practical examples in the service instructions

Sight window

over the sample, extremely useful during initial adjustment

30 plates for samples
inclusive

Plates for samples, of Aluminium, Ø 94 mm.
Unit of 80 pieces,
KERN RH-A01, € 25,-



Adjusting programme CAL, external test weights additional price

Round fibreglass filter, e.g. for samples that splash or become encrusted. Unit of 100 pieces. No picture,
KERN RH-A02, € 45,-

Matrix needle printer,
KERN 911-013, € 330,-
see page 57

The last value measured remains on the display until erased by a new measurement

Date / time function for installation,
KERN 822-960, € 74,-

2 quartz infrared heaters
each 205 W

Protective working cover over user field and casing standard. Can be reordered any time,
KERN RH-A07, € 11,-

Temperature calibration set consisting of measurement sensor, display device and calibration plate,
KERN RH-A03, € 300,-

Dry measurement values

Readout	0.01 %
Repeatability, weight 1 g	0.2 %
Repeatability, weight 10 g	0.02 %

Display after drying

% humidity = weight reduction	0 - 100 %
% dry mass = residual weight	100 - 0 %
% ATRO	100 - 999 %
g humidity = liquid substances / weight reduction	
g dry mass = solid substances / residual weight	

Weighing system

Readout	d	1 mg
Weighing range	Max = maximal weight	120 g

Heater / temperature adjustment

Temperature range	40 - 250°C	in steps of 1°C
Fixed heating stages (constant heat)		20
Pre-heating stages to reduce drying time		1 - 99 min

Drying sequence / switch-off criteria

Fully automatic: drying until weight becomes constant.
Semiautomatic: drying ends when loss per unit of time goes below theoretical value.
Manual: according to adjusted time 1 - 200 min
Check of measure value: Interval adjust. of 0.1 - 10 min
(in combination with **RS 232** and printer **KERN 911-013**)

KERN RH 120-3 Price excl. of VAT ex works € 2470,-



* Delivery period
+ 7 days

Metal casing
sturdy and stable

*High standard for
small budgets*

Test weight incl.
Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light" free
of charge on the internet,
KERN SBD-1.0L

Capacity display
A bar graph shows the
current available weighing
range

Identification number
4 numeric positions,
free input

Matrix needle printer,
no picture,
KERN 911-013, € 330,-
see page 57

Carat change over: display can be switched from g / ct.

Model	d	Max
KERN	ct	ct
ABJ 80-4M	0,001	415
ABJ 120-4M	0,001	600
ABJ 220-4M	0,001	1100

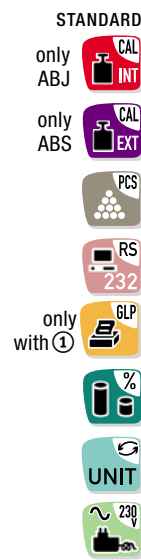
The carat display is verifiable.

Model KERN	Read- out d	Weighing- range Max	Verific. value e	Min. load Min	Repro- duci- bility	Linea- rity	Min. piece weight at piece count.	Price € excl. of VAT ex works	Verifi- cation KERN	ALTERNATIVE M I	Certifi- cate KERN	DKD
ABS 80-4	0,1	83	-	-	0,1	± 0,2	10	1500,-	-	-	963-101	125,-
ABS 120-4	0,1	120	-	-	0,1	± 0,2	10	1680,-	-	-	963-101	125,-
ABS 220-4	0,1	220	-	-	0,1	± 0,2	10	1860,-	-	-	963-101	125,-

VERIFIABLE										1 Verification in the factory.		
Model	Read- out	Weighing- range	Verific. value	Min. load	Repro- duci- bility	Linea- rity	Min. piece weight at piece count.	Price € excl. of VAT ex works	Verifi- cation	ALTERNATIVE	Certifi- cate	DKD
ABJ 80-4M	0,1	83	1	0,01	0,1	± 0,2	10	1840,-	950-101	1 139,-	963-101	125,-
ABJ 120-4M	0,1	120	1	0,01	0,1	± 0,2	10	1940,-	950-101	1 139,-	963-101	125,-
ABJ 220-4M	0,1	220	1	0,01	0,1	± 0,2	10	2160,-	950-101	1 139,-	963-101	125,-

Total balance W x D x H 215 x 315 x 330 mm. Weighing
space W x D x H 200x170x240mm. Net weight approx.
7 kg. LCD display with digit height 14mm.

PCS: Piece counting with reference 10, 20, 50, 100 pieces.
UNITS: Further weighing units (only ABS): ct, lb, oz, ozt, dwt, GN.
Permissible ambient temperature +10 ... +30°C.



① **Statistics printer,**
KERN YKT-01, € 590,-

STANDARD



only with ② + ③

OPTION

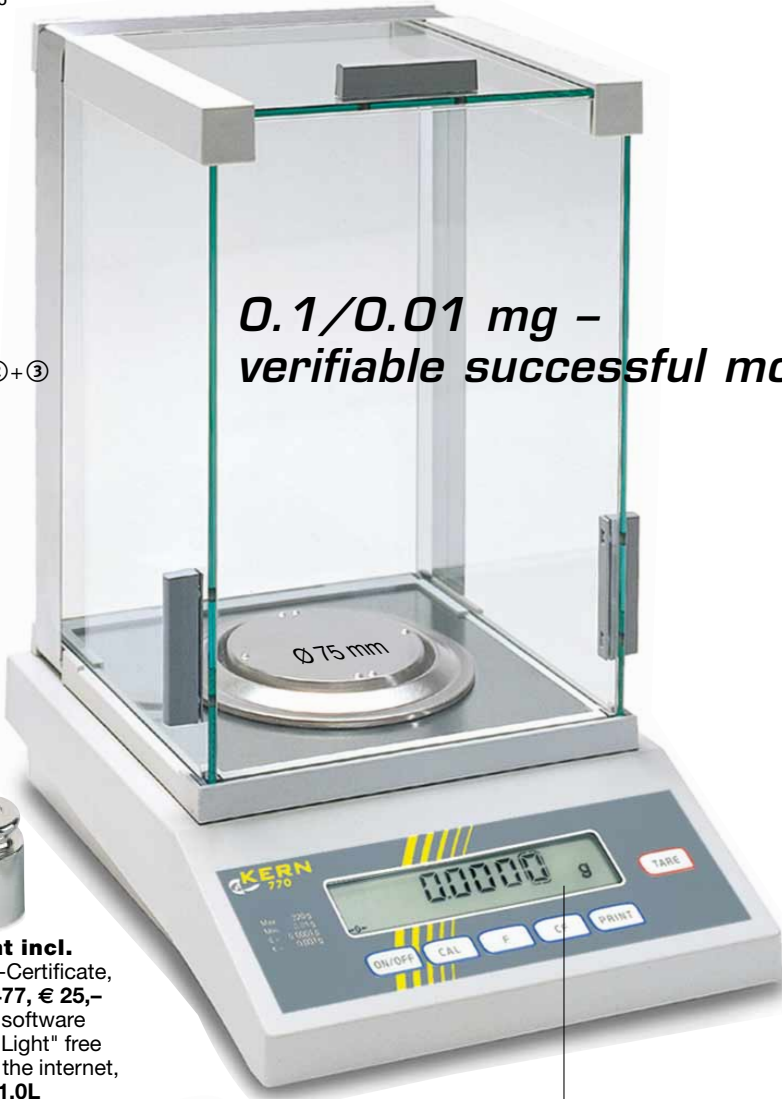


Test weight incl.
Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light" free
of charge on the internet,
KERN SBD-1.0L

Set for density determination
of liquids and solids.
KERN 770-910, € 510,-



0.1/0.01 mg –
verifiable successful model



Fast display
responds quickly to the
slightest changes in weight.
Practical for manual
dispensing

Printer ② + ③ and further
details see page 20/21

M
Verification possible

DKD
Certificate possible

3
Years Warranty

24
Hours Delivery

* Delivery period
+ 7 days



Pipette Calibration
BRAND

Our package solution for
ISO 9000 and GLP quality
control equipment.
**The analytical balance
KERN 770-60** is just
the right balance for
pipette calibration.

**The checking software
EASYCAL 3.0** on CD-
ROM, takes you safely via
PC through the test,
automatically creating the
right ISO 4787, ISO DIS
8655 etc. test protocols
KERN SEM-3.0, € 300,-

**Affordable package
price:**
Balance KERN 770-60
and checking software
EASYCAL 3.0
KERN 770-P01, € 3630,-



Accu-supply,
external, approx. 32 h,
KERN 770-906, € 280,-

Model KERN	Read- out d mg	Weighing- range Max g	Verific. value e mg	Min. load Min g	Repro- duci- bility mg	Linea- rity mg	Min. piece weight at piece count. mg	Price € excl. of VAT ex works	ALTERNATIVE			
									Verifi- cation KERN	M €	I Certificate KERN €	DKD €
770-13	0,1	120	–	–	0,1	± 0,2	0,5	1890,-	–	–	963-101	125,-
770-15	0,1	220	–	–	0,1	± 0,2	0,5	2170,-	–	–	963-101	125,-
VERIFIABLE												
770-12	0,1	120	1	0,01	0,1	± 0,2	0,5	2070,-	950-101	1	139,-	963-101 125,-
770-14	0,1	220	1	0,01	0,1	± 0,2	0,5	2350,-	950-101	1	139,-	963-101 125,-
770-60	0,01	60	1	0,01	0,01	± 0,03	0,05	3400,-	950-101	1	139,-	963-101 125,-
	0,1	210			0,1	± 0,2						

Total balance W x D x H 200x300x340 mm. Weighing space
W x D x H 165x170x230 mm. Net weight approx. 6 kg.
Permissible ambient temperature +10 ... +30°C.

PCS: Piece counting with reference 1-255 pieces.
UNITS: Further weighing units (only 770-13 and 770-15):
mg, ct, lb, oz, ozt, GN, tLH, tLM

LABORATORY BALANCES



* Delivery period
+ 7 days

Top end model with variation-rich software

Extensive software

Details see page 22 bottom.
Update via internet possible

Protective working cover

cover over user field and
casing standard.
Can be reordered any time,
KERN PR-A25, € 10,-

Capacity display

A bar graph shows
the current available
weighing range

Test weight incl.

Option: DKD-Certificate,
KERN 960-477, € 25,-
Balance test software
"BalanceCal Light"
free of charge on the
internet,
KERN SBD-1.0L

Fluorescence display

Strongly lighting,
high contrast



Accu-supply,
internal, approx. 3 h,
KERN PR-A22, € 275,-

User guide

with plain text on the dis-
play, select the language
German, English or French

Set for density determination

of liquids and solids,
KERN AR-A01, € 550,-

Statistics printer,

KERN YKT-01, € 590,-

Matrix needle printer,

no picture,
KERN 911-013, € 330,-
see page 57

Model KERN	Read- out d mg	Weighing- range Max g	Verific. value e mg	Min. load Min g	Repro- duci- bility mg	Linea- rity mg	Min. piece weight at piece count. mg	Price € excl. of VAT ex works	ALTERNATIVE			
									Verifi- cation KERN	M I €	Certifi- cate KERN €	DKD €
ARS 120-4	0,1	120	-	-	0,1	± 0,2	0,1	2120,-	-	-	963-101	125,-
ARS 220-4	0,1	220	-	-	0,1	± 0,2	0,1	2370,-	-	-	963-101	125,-

	VERIFIABLE										1 Verification in the factory.		
ARJ 120-4M	0,1	120	1	0,01	0,1	± 0,2	0,1	2420,-	950-101	1	139,-	963-101	125,-
ARJ 220-4M	0,1	220	1	0,01	0,1	± 0,2	0,1	2670,-	950-101	1	139,-	963-101	125,-

Total balance WxDxH 210 x 340 x 345 mm. Weighing space WxDxH 205 x 205 x 260 mm. Net weight approx. 7 kg.

PCS: Piece counting with freely selectable reference quantity.
Permissible ambient temperature +15 ... +25°C.



The smart solution for your loads...

...with our robust industrial balances you can even get to grips with heavy weights. Innovative, convincing quality.



INDUSTRIAL BALANCES

For fast and precise weighing at a basic price

Catalogue 2003

***DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days



- New model 0,5g/3kg
- Now with data interface RS 232
- Further weighing units
- Function to determine percentages

Weighing plate
stainless steel
230 x 180 mm

KERN
CB 6 K1N

M
Memory

0.0000
Max 6kg
d = 1g

PRINT MODE CAL
ON OFF SET M
TARE



Battery supply possible

Block-battery (9 V) not standard. AUTO-OFF function after 5 min to preserve the battery

Large LCD display
with digit height 25 mm

Data transfer
e.g. to printer or PC

Protective working cover over user field and casing standard.
Can be reordered any time,
KERN CB-A02, € 10,-



Adjusting programme CAL, external test weights additional price



Accu-supply, external, approx. 130 h,
KERN KS-A01, € 190,-



Statistics printer,
KERN YKT-01, € 590,-
see page 57



Matrix needle printer,
KERN 911-013, € 330,-
see page 57

STANDARD



OPTION



Model	Read-out d g	Weighing-range Max kg	Repro-ducibility g	Linea-rity g	Min. piece weight at pice count. g	Net weight approx. kg	Price € excl. of VAT ex works	OPTION Certificate DKD	
								KERN	€
KERN									
☺ CB 3 K0.5 N	0,5	3	0,5	± 1,5	1	2,5	210,-	963-116	75,-
CB 6 K1 N	1	6	1	± 3	2	2,5	210,-	963-117	90,-
CB 12 K1 N	1	12	1	± 3	2	2,5	230,-	963-117	90,-
CB 24 K2 N	2	24	2	± 6	4	2,5	230,-	963-117	90,-

Total balance W x D x H 240 x 310 x 110 mm.

PCS: Piece counting with reference 5, 10, 25, 50 pieces.

☺ **UNITS:** Further weighing units: lb, oz, ozt, dwt, tLH, tLT, mom.

STANDARD



OPTION



*Uncomplicated, mobile
and low cost*

***DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days



Extremely flat construction
Only 60 mm height

Fast display
stabilisation time only
approximately 2 sec

Large LCD display
with digit height 14 mm

Easy to use
with two keys only



This balance is especially suitable for mobile use thanks to its battery supply and its flat construction



Battery supply possible
Batteries size AA (6 x 1.5 V) not standard. AUTO-OFF function after 3 min to preserve the battery. Operation time approx. 100 h



Accu-supply, external, approx. 270 h,
KERN KS-A01, € 190,-

Model	Read-out d	Weighing-range Max	Repro-ducibility	Linearity	Net weight approx.	Price € excl. of VAT ex works	OPTION	
							Certificate	DKD
KERN	g	kg	g	g	kg		KERN	€
ECB 10K10	10	10	10	± 20	2	140,-	963-128	90,-
ECB 20K20	20	20	20	± 40	2	140,-	963-128	90,-
ECB 50K50	50	50	50	± 100	2	140,-	963-128	90,-

Total balance W x D x H 320 x 300 x 60 mm.

INDUSTRIAL BALANCES



* Delivery period
+ 7 days



Weighing plate
stainless steel
230 x 180 mm
280 x 260 mm



Battery supply possible Battery Size D (2 x 1,5 V) not standard. With AUTO-OFF function after 20 and 60 min to preserve the battery. Operation time approx. 300 h

Large LCD display
with digit height 25 mm

Compact size
beneficial where space is limited



Adjusting programme CAL, only for not verified balances. External test weights additional price

This balance is particularly suitable for mobile use thanks to its battery operation with an extremely long operating life



Example Dual-range balance : KERN GAB 6K2DM Max = 6 kg, d₁ = 2 g (from 0-3kg), d₂ = 5 g (from 3-6kg)

Model	Read-out d g	Weighing-range Max kg	Verific. value e g	Min. load Min g	Total balance WxDxH mm	Net weight approx. kg	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Verifi- cation KERN €	M III
KERN										
	d ₁ d ₂ = Dual-range balance (D=Dual)				VERIFIABLE			1	Verification in the factory.	
GAB 3K1 DM	1 2	1,5 3	1 2	20	240x285x110	2	230 x 180	300,-	950-527	1 54,-
GAB 6K2 DM	2 5	3 6	2 5	40	240x285x110	2	230 x 180	300,-	950-528	1 66,-
GAB 15K5 DM	5 10	7,5 15	5 10	100	290x365x125	3,5	280 x 260	350,-	950-528	1 66,-
GAB 30K10 DM	10 20	15 30	10 20	200	290x365x125	3,5	280 x 260	350,-	950-528	1 66,-

1 Verification in the factory, location of use with post code required. Permissible ambient temp. -5 ... +40°C.

Permissible humidity: 15-80 % (non condensating)

STANDARD



Favourably priced parcel balance for dispatch weighing



• New model

KERN EOB

Weighing plate
stainless steel
310 x 300 x 55 mm

Large LCD display
with digit height of
25 mm (both models)

Weighing units
display can be switched
from kg to lb (both models)

Hand grip
for transporting

Rubber mat non slip,
serial with **KERN EOS**

Battery supply possible Batteries size
AA (6 x 1.5 V) not standard.
AUTO-OFF function after 3
min to preserve the battery.
Operation time approx. 60 h
(both models)

Weighing plate in XL size

KERN EOS

Weighing plate
stainless steel
900 x 550 x 70 mm

Hold-key



Weighing of animals
the weighing of the moving
animal is started by the
HOLD key and an average
value is given. This value
remains "frozen" until the
HOLD key is pressed
again.

2 rollers
to transport
the balance,
standard

Wall mounting
for the display
device standard

Display device
freely positionable
thanks to flexible
spiral cable. Cable
length max. 1.8 m
(both models)

*** DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days

Model	Read-out d	Weighing-range Max	Repro- duci- bility	Linea- rity	Net weight approx. kg	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN	g	kg	g	g	kg		KERN	€
EOB 35K20	20	35	20	± 40	4	170,-	963-128	90,-
EOB 60K50	50	60	50	± 100	4	170,-	963-129	125,-
EOB 150K100	100	150	100	± 200	4	170,-	963-129	125,-
EOB 300K100	100	300	100	± 300	5	190,-	963-129	125,-
EOS 150K100 XL	100	150	100	± 200	28	500,-	963-129	125,-
EOS 300K200 XL	200	300	200	± 400	28	500,-	963-129	125,-

Display device W x D x H 220 x 90 x 45 mm.

UNITS: Further weighing units: lb.

INDUSTRIAL BALANCES

Multi function balance: for parcels, counting, mixing, checking...



* Delivery period
+ 7 days



- Price reduction
- 6 new models
- Now with data interface RS 232
- Further weighing units
- Function to determine percentages

STANDARD



OPTION



INDUSTRIAL BALANCES



Weighing plate
stainless steel
310 x 310 x 60 mm
500 x 400 x 70 mm
650 x 500 x 90 mm

Wall mounting
for the display device
standard



Adjusting programme
CAL, external test weights
additional price

Large LCD display
with digit height 25 mm

Data transfer
e.g. to printer or PC

Protective working
cover over display
device standard.
Can be reordered any time,
KERN DE-A02, € 10,-



Battery supply
possible
Block-battery (9 V) not
standard. AUTO-OFF
function after 5 min to
preserve the battery



Weighing plate
310 mm x 310 mm



Weighing plate
650 mm x 500 mm



Set for underfloor
weighing, only for models
up to a **Max** of 36 kg and
platform size 310 x 310 mm,
KERN DS-A01, € 80,-



Display device can be positioned in different ways:

- screwed to the front, standard
- separate standing, cable length approx. 1.5 m
- screwed to the wall, wall mounting standard



For quick weighing checks at different locations. The weighing values can be transferred to a PC or printer for further evaluations.



Thanks to the formula function various components of a mixture can be weighed together. In order to check, the total weight of all the components can be called up.



Stand to elevate the display device.
Stand height 450 mm,
KERN DE-A01, € 40,-



Accu-supply,
external, approx. 150 h
KERN KS-A01, € 190,-



Statistics printer,
KERN YKT-01, € 590,-
see page 57



Matrix needle printer,
KERN 911-013, € 330,-
see page 57

Model	Read-out g	Weighing-range Max kg	Min. piece weight at piece count. g	Net weight approx. kg	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN							KERN	€
DE 3K1 N	1	3	2	5	310 x 310	205,-	963-127	75,-
DE 6K2 N	2	6	4	5	310 x 310	205,-	963-128	90,-
DE 15K5 N	5	15	10	5	310 x 310	205,-	963-128	90,-
DE 36K10 N	10	36	20	5	310 x 310	205,-	963-128	90,-
DE 36K10 NL	10	36	20	10	500 x 400	330,-	963-128	90,-
DE 60K20 N	20	60	40	5	310 x 310	205,-	963-129	125,-
DE 60K20 NL	20	60	40	10	500 x 400	330,-	963-129	125,-
DE 150K50 N	50	150	100	5	310 x 310	205,-	963-129	125,-
DE 150K50 NL	50	150	100	10	500 x 400	330,-	963-129	125,-
DE 150K50 NXL	50	150	100	30	650 x 500	520,-	963-129	125,-
DE 300K100 N	100	300	200	10	500 x 400	330,-	963-129	125,-
DE 300K100 NL	100	300	200	30	650 x 500	520,-	963-129	125,-
Fine range								
DE 6K0.5 N	0,5	6	1	7	310 x 310	260,-	963-128	90,-
DE 12K1 N	1	12	2	7	310 x 310	260,-	963-128	90,-
DE 24K2 N	2	24	4	7	310 x 310	260,-	963-128	90,-
DE 60K5 N	5	60	10	7	310 x 310	260,-	963-129	125,-

Display device W x D x H 200 x 100 x 55 mm.

PCS: Piece counting with reference 5, 10, 25, 50 pieces.

UNITS: Further weighing units: lb, oz, ozt, tLH, tLT.



* Delivery period + 7 days



• Price reduction



Level indicator

Weighing plate
stainless steel
380 x 380 x 90 mm
480 x 480 x 90 mm

Roll stop barrier
on all four sides of the platform

Substructure steel lacquered

Foot screws



Display device can be positioned in different ways:

- screwed to the front, standard
- separate standing, cable length approx. 3 m, desk set-up standard
- screwed to the wall, wall mounting standard

Preliminary subtraction of tare weight with help of 2 keys, e.g. known container weight

Large LCD display with digit height 23 mm
Fast display
Stabilisation time only approx. 2 sec



Adjusting programme CAL, only for not verified balances. External test weights additional price



Stand to elevate the display device.
Stand height 800 mm, **KERN VB-A01**, € 85,-

Model	Read-out d g	Weighing-range Max kg	Verific. value e g	Min. load Min g	Net weight approx. kg	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Verifi- cation KERN	M III	€
KERN										
VB 30K10 M	10	30	10	200	11	380 x 380	☺ 500,-	950-128	1	58,-
VB 60K20 M	20	60	20	400	11	380 x 380	☺ 520,-	950-129	1	93,-
VB 60K20 LM	20	60	20	400	21	480 x 480	☺ 670,-	950-129	1	93,-
VB 150K50 M	50	150	50	1000	11	380 x 380	☺ 550,-	950-129	1	93,-
VB 150K50 LM	50	150	50	1000	21	480 x 480	☺ 690,-	950-129	1	93,-
VB 300K100 M	100	300	100	2000	21	480 x 480	☺ 740,-	950-129	1	93,-

1 Verification in the factory, location of use with post code required.
Permissible humidity: 15-80 % (non condensating)

Permissible ambient temperature -10°C ... +40°C.
Display device W x D x H 200 x 140 x 50 mm.

STANDARD



OPTION

only
IP 54

The big hit in the industrial sector

KERN FTB

Compact balance

Weighing plate
stainless steel
240 x 200 mm
350 x 240 mm**KERN**
FTB

0.0000 kg

ON
OFF

→ 0 ←

TARE

PRINT

Rear illuminated LCD display,
digit height 16 mm

**Protection class IP65**

surcharge € 200,-

State following when
ordering: desired model
with extra IP, e.g.**FTB 15K2DM IP****Adjusting programme**

CAL, only for not verified
balances. External test
weights additional price

**Adjustable reading
print out**, see page 38

Automatic taring
when placing the container,
saves time

Dynamic weighing
when weighing animals or
when there are strong
vibrations



Accu supply, internal, approx.
30h, not in combination with
IP65, **KERN FTB-A01**, € 156,-

**Protective working
cover** over user field and
casing. For weighing plates
with size 240x200 mm:
KERN FTB-A02, € 18,-
For weighing plates with
size 350x240 mm:
KERN FTB-A03, € 20,-

Matrix needle printer,
KERN 911-013, € 330,-
see page 57

M
Verification
possible

DKD
Certificate
possible

3
Years
Warranty

10
Days
Delivery

* Delivery period
+ 7 days

**metal
casing**
sturdy and
stable

Example Dual-range balance: KERN FTB 15K2DM **Max** = 15 kg, **d1** = 2 g (from 0-6kg), **d2** = 5 g (from 6-15kg), **M** = verifiable

Model	Read- out d g	Weighing- range Max kg	Verific. value e g	Min. load Min g	Net weight approx. kg	Weighing- plate mm	Price € excl. of VAT ex works	Verifi- cation KERN	M €	Certifi- cate KERN	DKD €
KERN											
FTB 3K0.1	0,1	3	-	-	5	240 x 200	560,-	-	-	963-127	75,-
FTB 6K0.2	0,2	6	-	-	5	240 x 200	560,-	-	-	963-128	90,-
FTB 15K0.5	0,5	15	-	-	5	240 x 200	560,-	-	-	963-128	90,-
FTB 15K0.5 L	0,5	15	-	-	8	350 x 240	640,-	-	-	963-128	90,-
FTB 35K1	1	35	-	-	8	350 x 240	640,-	-	-	963-128	90,-
FTB 60K2	2	60	-	-	8	350 x 240	640,-	-	-	963-129	125,-

	d1 d2 = Dual-range balance (D=Dual)					VERIFIABLE		1 Verification in the factory.			
FTB 3K0.5 DM	0,5 1	1,5 3	0,5 1	10	5	240 x 200	560,-	950-527	1	54,-	-
FTB 6K1 DM	1 2	3 6	1 2	20	5	240 x 200	560,-	950-528	1	66,-	-
FTB 15K2 DM	2 5	6 15	2 5	40	5	240 x 200	560,-	950-528	1	66,-	-
FTB 15K2 DLM	2 5	6 15	2 5	40	8	350 x 240	640,-	950-528	1	66,-	-
FTB 35K5 DM	5 10	15 35	5 10	100	8	350 x 240	640,-	950-528	1	66,-	-
FTB 60K10 DM	10 20	30 60	10 20	200	8	350 x 240	640,-	950-529	1	103,-	-

1 Verification in the factory, location of use with post code required.
Total balance up to **Max** 15kg: BxTxH 265x335x100mm.
Total balance from **Max** 15kg (L): BxTxH 360x370x115mm.

UNITS: Further weighing units (FTB non verifiable models): lb, oz.
Permissible ambient temperature -10 ... +40°C.
Permissible humidity: 15-80 % (non condensating).

Modular family of balances - now completely protected with IP 65



* Delivery period
+ 7 days

Substructure
steel powder coated

Rear illuminated
LCD display,
digit height
16 mm

Automatic
taring when
placing the con-
tainer, saves time

Dynamic weighing
when weighing animals or
when there are strong
vibrations

Dosage aid through
specially controlled display

KERN ITB
Basic model

Metal casing
sturdy and stable



Adjusting programme
CAL, only for not verified
balances. External test
weights additional price

STANDARD



OPTION



Weighing plate
stainless steel
300 x 240 x 80 mm
400 x 300 x 86 mm
500 x 400 x 86 mm
650 x 500 x 100 mm

Sample order: KERN ITS 35K5 DIPM **Max** = 35 kg, **d₁** = 5 g (from 0-15kg), **d₂** = 10 g (from 15-35kg), **M** = verifiable, Price € 900,-

Model	Model	Model		Read- out d g	Weighing- range Max kg	Verific. value e g	Min. load Min g	Min. piece weight at piece count. g	Cable- length approx. m	Net weight approx. kg	Weighing- plate stainl. steel mm
KERN	KERN	KERN									
ITB...	ITS...	ITT...	6K0.2 IP	0,2	6	-	-	0,04	1	9	300 x 240
ITB...	ITS...	ITT...	15K0.5 IP	0,5	15	-	-	0,1	1	9	300 x 240
ITB...	ITS...	ITT...	35K1 IP	1	35	-	-	0,2	2	14	400 x 300
ITB...	ITS...	ITT...	60K2 LIP	2	60	-	-	0,4	2	24	500 x 400
ITB...	ITS...	ITT...	60K2 XLIP	2	60	-	-	0,4	3	29	650 x 500
ITB...	ITS...	ITT...	150K5 IP	5	150	-	-	1	3	24	500 x 400
ITB...	ITS...	ITT...	150K5 LIP	5	150	-	-	1	3	29	650 x 500
ITB...	ITS...	ITT...	300K10 IP	10	300	-	-	2	3	29	650 x 500

				d ₁ d ₂ = Dual-range balance		(D=Dual)		VERIFIABLE			
ITB...	ITS...	ITT...									
ITB...	ITS...	ITT...	6K1 DIPM	1 2	3 6	1 2	20	0,04	1	9	300 x 240
ITB...	ITS...	ITT...	15K2 DIPM	2 5	6 15	2 5	40	0,1	1	9	300 x 240
ITB...	ITS...	ITT...	35K5 DIPM	5 10	15 35	5 10	100	0,2	2	14	400 x 300
ITB...	ITS...	ITT...	60K10 DLIPM	10 20	30 60	10 20	200	0,4	2	24	500 x 400
ITB...	ITS...	ITT...	60K10 DXLIPM	10 20	30 60	10 20	200	0,4	3	29	650 x 500
ITB...	ITS...	ITT...	150K20 DIPM	20 50	60 150	20 50	400	1	3	24	500 x 400
ITB...	ITS...	ITT...	150K20 DLIPM	20 50	60 150	20 50	400	1	3	29	650 x 500
ITB...	ITS...	ITT...	300K50 DIPM	50 100	150 300	50 100	1000	2	3	29	650 x 500

W x D x H of terminals see page 41.

Permissible ambient temperature -10 ... +40°C.

Permissible humidity: 15-80 % (non condensating)

**Platforms (weighing bridges) and terminals (display
devices) available individually, see page 41**

STANDARD



Counting
resolution
150 000 Pt



OPTION



KERN ITS

Standard model

- **Functions** as with ITB
- **Capacity display**
A bar graph shows the current available weighing range
- **Shift capability**
net/gross
- **Piece counting** with fixed reference piece numbers 1, 2, 5, 15, 20, 25, 30, 50, 100 pcs
- **Reference optimization** automatic, improves step by step the counting accuracy
- **Precision display** for all verifiable models: by pressing key, readout **d** can be increased in one digit for 10 sec

KERN ITT

Top model

- **Functions** as with ITB and ITS
- **40 tare store**
- **40 reference store** (PCS)
- **10 store target weight** including +/- tolerance in weight or %
- **Tare deduction** numerical or from the store
- **Piece counting** with variable reference, numerical or from the store
- **Totalizing** of weight readings or piece readings
- **2 identification numbers** each max. 40 digits
- **Date/time**
- **Information key** to indicate individual user settings

STANDARD



Counting
resolution
150 000 Pt



OPTION



Accessories for all models ITB/ITS/ITT:

Protective working cover for the terminal, KERN ITB-A03, € 20,-

Wall mounting for the terminal, rotating, KERN ITB-A01, € 84,-

Terminal mounting for screwing of terminal to platform, KERN ITB-A02, € 62,-

Stand to elevate the terminals:

- Height 300 mm, KERN ITB-A05, € 205,-
- Height 450 mm, KERN ITB-A06, € 205,-
- Height 600 mm, KERN ITB-A07, € 205,-

Rechargeable battery pack external, in AL housing, IP 65. Operation time approx. 30 h, charging time approx. 8 h, battery discharge status in the display, KERN ITB-A04, € 295,-

Second data interface

RS 232C bidirectional as a separate attachable Y cable KERN ITB-A09, € 36,-

Matrix needle printer, KERN 911-013, € 330,- see page 57

Adjustable recording print out configurable with software KERN SCD-3.0D on the internet

Price ITB... excl. VAT ex works €	Price ITS... excl. VAT ex works €	Price ITT... excl. VAT ex works €	ALTERNATIVE			
			Verification	M III	Certificate	DKD
			KERN	€	KERN	€
700,-	830,-	1110,-	-	-	963-128	90,-
730,-	860,-	1140,-	-	-	963-128	90,-
770,-	900,-	1180,-	-	-	963-128	90,-
910,-	980,-	1270,-	-	-	963-129	125,-
1170,-	1240,-	1520,-	-	-	963-129	125,-
960,-	1050,-	1330,-	-	-	963-129	125,-
1220,-	1350,-	1630,-	-	-	963-129	125,-
1290,-	1440,-	1730,-	-	-	963-129	125,-

1 Verification in the factory.

700,-	830,-	1110,-	950-528	1	66,-	963-528	90,-
730,-	860,-	1140,-	950-528	1	66,-	963-528	90,-
770,-	900,-	1180,-	950-528	1	66,-	963-528	90,-
910,-	980,-	1270,-	950-529	1	103,-	963-529	125,-
1170,-	1240,-	1520,-	950-529	1	103,-	963-529	125,-
960,-	1050,-	1330,-	950-529	1	103,-	963-529	125,-
1220,-	1350,-	1630,-	950-529	1	103,-	963-529	125,-
1290,-	1440,-	1730,-	950-529	1	103,-	963-529	125,-

1 Verification in the factory, location of use with post code required.



* Delivery period
+ 7 days

Three terminals for choice (detailed description see page 38, 39, 41)



KERN ITB:
Weighing



KERN ITS:
Weighing, counting



KERN ITT:
Weighing, counting
mixing, numerical
inputs. Memories



Platform



Terminal

Stand, height 1140 mm,
KERN ITB-A08, € 194,-

Socket for the stand,
480 x 480 mm
KERN TS-A28, € 110,-



1500 x 1250 x 80 mm

1500 mm

Ascending ramp,
1250 x 800 mm,
not standard,
KERN TS-A29
€ 290,- per piece

Weighing bridge

Anti slip corrugated steel plate, lacquered. Extremely resistant to bending because of its high material thickness. Overall height only 80 mm

4 weighing cells

mobile stored, therefore especially shock absorbing, even against transverse forces

Easy adjusting

Special corner adjustment with the built-in junction box



Adjusting programme CAL, only for not verified balances. External test weights additional price



Pair of base plates,
not standard,
KERN TS-A30, € 50,-

Wall mounting

for the terminal,
KERN ITB-A01, € 84,-

Cable with special length, 10 m,
KERN TS-A31, € 110,-

M Note: for verified balances the weighing bridge must be fixed to the bottom. Optionally with two ascending ramps or with two pairs of base plates or with a combination of these two options.

Dispatch complete on pallet, dimensions W x D x H 1500 x 1250 x 250 mm, gross weight inclusive of pallet approximate 135 kg.

Scope of delivery: weighing bridge and terminal standard KERN	Read- out d g	Weighing- range Max kg	Verification value e g	Minimum load Min kg	Price € excl. of VAT ex works	OPTION Verifi- cation KERN	M III	€
ITB 600K200 M	200	600	200	4	2620,-	-	2	-
ITS 600K200 M	200	600	200	4	2680,-	-	2	-
ITT 600K200 M	200	600	200	4	2860,-	-	2	-
ITB 1500K500 M	500	1500	500	10	2620,-	-	2	-
ITS 1500K500 M	500	1500	500	10	2680,-	-	2	-
ITT 1500K500 M	500	1500	500	10	2860,-	-	2	-

2 Verification only possible at location of use.
Net weight approx. 116 kg.

Permissible ambient temperature -10 ... +40°C.
Cable with length approx. 5 m standard.

Terminals (Display devices) individually



STANDARD:



Model	Price € excl. of VAT ex works
KERN ITB-TM	485,-



ADDITIONAL:



Model	Price € excl. of VAT ex works
KERN ITS-TM	545,-



ADDITIONAL:



Model	Price € excl. of VAT ex works
KERN ITT-TM	730,-

* **M**
Verification
possible

* **DKD**
Certificate
possible

3
Years
Warranty

10
Days
Delivery

* Delivery period
+ 7 days

Type all 3 models:

- EU verifiable, class (III), 7000 e
- Non verifiable type 300.000 d
- Definable up to 3 weighing ranges
- Weighing units g, kg, lb, oz, t
- Digit stages 1, 2, 5, 10ⁿ
- Digit height 16 mm
- Suitable for nominal loads 0.1-999,999.9
- For DMS weighing cells, 80-1000 ohms, difference signal 1-25 mV/V.
- Linearisation 3 or 5 points ≤ 0.1% of max
- For DMS weighing cells in verifiable type additionally: 6 wire (sense), sensitiveness 2-3mV/V
- Complete with aluminium housing, W x D x H 260 x 195 x 75 mm
- Net weight approx. 2,5 kg
- Permissible ambient temperature -10 ... +40°C

M When configuring verifiable **terminals** and verifiable **platforms** to a complete device, this weighing system is in class (III) verifiable as a trade balance.

Further details see page 38/39.
Accessories: See page 39

Platforms (Weighing bridges) individually

- EU verifiable, class (III), 3000 e (with OIML-authorized weigh. cell)
- Single-Point model (one weighing cell only) with overload protection
- Levelling feet and level indicator standard
- Stainless steel weighing plate
- Substructure powder coated steel



Model	Read-out d g	Weighing-range Max kg	Verific. value e g	Min. load Min g	Addi- tional preload kg	Cable- length approx. m	Net weight approx. kg	Total dimensions W x D x H mm	Price € excl. of VAT ex works
KERN									
TP 6 M	2	6	2	40	0,8	1	8	300 x 240 x 80	425,-
TP 15 M	5	15	5	100	1,8	1	8	300 x 240 x 80	460,-
TP 35 M	10	35	10	200	9,4	2	12	400 x 300 x 86	495,-
TP 60 M	20	60	20	400	34,4	2	12	400 x 300 x 86	530,-
TP 60 LM	20	60	20	400	28,6	3	23	500 x 400 x 86	610,-
TP 60 XLM	20	60	20	400	25,5	3	25	650 x 500 x 100	900,-
TP 150 M	50	150	50	1000	88,6	3	23	500 x 400 x 86	640,-
TP 150 LM	50	150	50	1000	85,5	3	25	650 x 500 x 100	880,-
TP 300 M	100	300	100	2000	185,5	3	25	650 x 500 x 100	910,-
TP 600 M	200	600	200	4000	160,0	5	116	1500 x 1250 x 80	2110,-
TP 1500 M	500	1500	500	10000	580,0	5	116	1500 x 1250 x 80	2110,-

Permissible ambient temperature -10 ... +40°C.

Verifiable stainless steel balance specially equipped to protect against moisture



* Delivery period
+ 7 days

Available as
from May 2003



Stainless steel finish
of housing and weighing
plate



Adjusting programme
CAL, only for not verified
balances. External test
weights additional price

Increased protection
against moisture
through watertight silicon
sealing of weighing cell,
electronics and soldered
joints

Requires little space
and has high mobility
thanks to compact
construction and built in
rechargeable batteries



Internal rechargeable
batteries, standard,
operation time approx. 24 h,
charging time approx. 8 h
through mains adapter

Model	Read- out d	Weighing- range Max g	Verific. value e g	Min. load Min g	Net weight approx. kg	Weighing- plate stainl. steel mm	Price € excl. of VAT ex works	ALTERNATIVE			
								Verifi- cation KERN	M III €	Certifi- cate KERN	DKD €
KERN											
FOB 1.5K0.5	0,5	1,5	—	—	2	180 x 170	370,—	—	—	963-127	75,—
FOB 3K1	1	3	—	—	2	180 x 170	370,—	—	—	963-127	75,—
FOB 6K2	2	6	—	—	2	180 x 170	370,—	—	—	963-128	90,—

VERIFIABLE							1 Verification in the factory.				
FOB 1K1 M	1	1	1	20	2	180 x 170	370,—	950-127	1 47,—	—	—
FOB 2K2 M	2	2	2	40	2	180 x 170	370,—	950-127	1 47,—	—	—
FOB 5K5 M	5	5	5	100	2	180 x 170	370,—	950-127	1 47,—	—	—

1 Verification in the factory, location of use with post code
required. Total balance WxDxH 190x250x55 mm.
LCD display with digit height 25 mm.

Permissible ambient temperature 0 ... +40°C.
Permissible humidity 25-95% (non condensating).

STANDARD



OPTION



Stainless steel!

Well protected with IP 67/68 against dust, water, steam

Stainless steel platform, with capsular weighing cell (IP 67)



• 5 new models

Weighing plate
stainless steel
335 x 260 x 91 mm
400 x 300 x 108 mm
600 x 450 x 118 mm

M
Verification possible

DKD
Certificate possible

3
Years
Warranty

10
Days
Delivery

* Delivery period
+ 7 days

Platform

Display device

Cable length,
approx. 3 m

Plus-minus display

too light - ok - too heavy



display in % und g

Summing up of gross,
tare, net, piece

Rear illuminated large LCD display,
digit height 20 mm

Stainless steel design

(1.4301), smooth surfaces,
rounded edges (IP 68)

Wall mounting for the
tiltable display device
serial

Waterproof**Capacity display****Adjusting programme**

CAL, only for not verified
balances. External test
weights additional price

**Data interface RS 232**

interface cable inclusive,
KERN FIS-A02, € 375,-

Stainless steel stand
height approx. 590 mm
KERN FIS-A01, € 285,-

Model	Read-out g	Weighing-range Max kg	Verific. value g	Min. load g	Repro-ducibility g	Linearity g	Min. piece weight at piece count.	Net weight approx. kg	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	ALTERNATIVE		
	d		e	Min							Veri- fication KERN	M III €	Certi- cate KERN €
KERN													
☺ FIS 6K1 IP	1	6	-	-	1	±2	0,2	11	335 x 260	1550,-	-	-	963-128 90,-
☺ FIS 12K2 IP	2	12	-	-	2	±4	0,5	17,5	400 x 300	1610,-	-	-	963-128 90,-
☺ FIS 30K5 IP	5	30	-	-	5	±10	1	18,5	400 x 300	1740,-	-	-	963-128 90,-
☺ FIS 60K10 IP	10	60	-	-	10	±20	2	37,5	600 x 450	2270,-	-	-	963-129 125,-
☺ FIS 120K20 IP	20	120	-	-	20	±40	5	41	600 x 450	2460,-	-	-	963-129 125,-

VERIFIABLE

1 Verification in the factory.

FIS 6K2 IPM	2	6	2	40	2	±2	0,2	11	335 x 260	1490,-	950-128	1	58,-	-	-
FIS 15K5 IPM	5	15	5	100	5	±5	0,5	17,5	400 x 300	1550,-	950-128	1	58,-	-	-
FIS 30K10 IPM	10	30	10	200	10	±10	1	18,5	400 x 300	1680,-	950-128	1	58,-	-	-
FIS 60K20 IPM	20	60	20	400	20	±20	2	37,5	600 x 450	2210,-	950-129	1	93,-	-	-
FIS 150K50 IPM	50	150	50	1000	50	±50	5	41	600 x 450	2400,-	950-129	1	93,-	-	-

1 Verification in the factory, location of use with post code required.
Display device WxDxH 380x150x260 mm.
Permissible ambient temperature -10 ... +40°C.

PCS: Piece counting with reference 5, 10, 20, 50, 100, 200 pieces.
Precision display: by pressing key, readout **d** can be increased in
one digit for 5 sec. **Printer KERN 911-013**, see page 57.

***DKD**
Certificate
possible

3
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days

STANDARD



Counting resolution
60 000Pt.



OPTION



Weighing plate
stainless steel
190 x 190 mm

Metal casing
sturdy and stable

Protective working cover
over user field and
casing standard.
Can be reordered any time,
KERN 474-903, € 10,-

Easy to use
The instructions are right
on the control panel. Ideal
if the balance is only used
occasionally



Adjusting programme
CAL, external test weights
additional price



Accu supply,
internal, approx. 5 h,
KERN 474-906, € 240,-



Weighing plate Ø 140 mm
with **KERN EC 600-2**

Model	Read-out d	Weighing-range Max	Repro- ducibility	Linearity	Min. piece weight at piece count	Weighing- plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN	g	g	g	g	g			KERN	€
EC 600-2	0,02	600	0,01	± 0,02	0,01	Ø 140	770,-	963-116	75,-
EC 6000-1	0,2	6000	0,1	± 0,2	0,1	190x190	770,-	963-117	90,-
EC 12K1	1	12000	1	± 2	0,3	190x190	750,-	963-117	90,-

Total balance WxDxH 200x300x80 mm.
Net weight approx. 3,5 kg.

PCS: Piece counting with reference 10 and 30 pieces.
Permissible ambient temperature +10 ... +30°C.

STANDARD



Counting resolution
30 000Pcs.

Verifiable industry model for professional counting and weighing

KERN VC

Counting balance



* Delivery period
+ 7 days



Weighing plate
stainless steel
330 x 245 mm

Six memories
for reference weights

Weight display
verifiable

Reference weight
in kg / 1000 pieces

Total piece
quantity

Input via numerical keypad:

- Tare deduction for the known container weight
- Reference quantity variable
- Reference weight



High mobility
thanks to battery supply



Battery supply possible

Batteries size D (6 x 1.5 V) not standard. Operation time approx. 500 h. AUTO-OFF function to preserve the battery, selectable between 3, 10, 30, 60, 180 min



Precise counting

Step by step the automatic reference optimisation improves the average value of the piece weight



Adjusting programme

CAL, only for not verified balances. External test weights additional price

Model	Read-out d g	Weighing-range Max kg	Verific. value e g	Min. load Min g	Min. piece weight at piece count. g	Price € excl. of VAT ex works	OPTION Verifi- cation KERN €
KERN							
VC 3K1 M	1	3	1	20	0,1	510,-	950-127 1 47,-
VC 6K2 M	2	6	2	40	0,2	510,-	950-128 1 58,-
VC 15K5 M	5	15	5	100	0,5	510,-	950-128 1 58,-
VC 30K10 M	10	30	10	200	1	510,-	950-128 1 58,-

1 Verification in the factory, location of use with post code required. Net weight approx. 4,5 kg.

Permissible humidity: 15-80 % (non condensating).
Permissible ambient temperature -10 ... +40°C.

Counting with easiest possible operation

***DKD**
Certificate possible

3
Years Warranty

24
Hours Delivery

* Delivery period
+ 7 days

NEW
by KERN

Counting resolution
60 000 Pt.

STANDARD



Size weighing plate
250 x 200 mm
up to **Max** 6 kg

- Quantity
- Reference weight
- Weight



Precise counting

Step by step the automatic reference optimisation improves the average value of the piece weight

Very easy to use

thanks to brief operating instructions in language D, E, F, ESP, I, NL right on the control panel

Rotary switch

to select reference quantity 1, 2, 5, 10, 50, 100 pcs

Animal weighing programme with adjustable average value determination. Also suitable for moving locations



Battery supply possible

Batteries Size C (6 x 1,5 V)
Operation time approx. 40 h



Statistics printer,
KERN YKT-01, € 590,-
see page 57

Model	Read-out d	Weighing-range Max	Repro-ducibility	Linearity	Min. piece weight at piece count.	Net weight approx.	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN	g	kg	g	g	g	kg			KERN	€
CGB 0.6K0.1	0,1	0,6	0,2	± 0,3	0,01	2	250 x 200	510,-	963-127	75,-
CGB 1.2K0.2	0,2	1,2	0,4	± 0,6	0,02	2	250 x 200	510,-	963-127	75,-
CGB 3K0.5	0,5	3	1	± 1,5	0,05	2	250 x 200	510,-	963-127	75,-
CGB 6K1	1	6	2	± 3	0,1	2	250 x 200	510,-	963-128	90,-
CGB 16K2	2	16	4	± 6	0,2	6	400 x 300	630,-	963-128	90,-
CGB 34K5	5	34	10	± 15	0,5	6	400 x 300	630,-	963-128	90,-
CGB 64K10	10	64	20	± 30	1	6	400 x 300	630,-	963-129	125,-

Total balance up to **Max** 6 kg: WxDxH 330x250x82 mm.

Total balance from **Max** 16 kg: WxDxH 430x400x120 mm.

LCD display with digit height 20 mm.

UNITS: Further weighing units: ct, lb, oz, ozt, dwt, GN, tLH, tLS, tLT, /lb, tlc, mom, tol, bat, MS.

Permissible ambient temperature 0...+40°C.

Counting in the "top league"

KERN FTC
 Counting balance

STANDARD


 Counting resolution
 150 000 Pt.


OPTION


 Weighing plate
 stainless steel
 240 x 200 mm
 350 x 245 mm

 * Delivery period
 + 7 days

**Rear illuminated
 LCD display,**
 digit height 16 mm

Net/gross weight
 shift with the touch of
 a key

**Quantity / Weight /
 Reference weight**
 shift with the touch of
 a key

Precise counting

 Step by step the automatic
 reference optimisation
 improves the average
 value of the piece weight

Capacity display

 A bar graph shows the cur-
 rent available weighing range

Automatic taring

 when placing the container,
 saves time

Adjusting programme
CAL, only for not verified
 balances. External test
 weights additional price

Accu supply, internal, 30 h
 charging time approx. 8h,
KERN FTB-A01, € 156,-

 As well as all functions
 of model **KERN FTB**,
 see page 37

Matrix needle printer,
KERN 911-013, € 330,-
 see page 57

Example Dual-range balance: KERN FTC 15K2DM **Max** = 15 kg, **d₁** = 2 g (from 0-6kg), **d₂** = 5 g (from 6-15kg), **M** = verifiable

Model	Read- out d g	Weighing- range Max kg	Verific. value e g	Min. load Min g	Min.piece weight at piece count. g	Net weight approx. kg	Weighing- plate mm	Price € excl. of VAT ex works	Verifi- cation KERN	M III €	Certi- cate KERN	DKD €
KERN												
FTC 3K0.1	0,1	3	-	-	0,02	5	240x200	690,-	-	-	963-127	75,-
FTC 6K0.2	0,2	6	-	-	0,04	5	240x200	690,-	-	-	963-128	90,-
FTC 15K0.5	0,5	15	-	-	0,1	5	240x200	690,-	-	-	963-128	90,-
FTC 15K0.5 L	0,5	15	-	-	0,1	8	350x240	770,-	-	-	963-128	90,-
FTC 35K1	1	35	-	-	0,2	8	350x240	770,-	-	-	963-128	90,-
FTC 60K2	2	60	-	-	0,4	8	350x240	770,-	-	-	963-129	125,-

	d ₁ d ₂ = Dual-range balance (D=Dual)				VERIFIABLE				1 Verification in the factory.			
FTC 3K0.5 DM	0,5 1	1,5 3	0,5 1	10	0,02	5	240x200	690,-	950-527	1	54,-	-
FTC 6K1 DM	1 2	3 6	1 2	20	0,04	5	240x200	690,-	950-528	1	66,-	-
FTC 15K2 DM	2 5	6 15	2 5	40	0,1	5	240x200	690,-	950-528	1	66,-	-
FTC 15K2 DLM	2 5	6 15	2 5	40	0,1	8	350x240	770,-	950-528	1	66,-	-
FTC 35K5 DM	5 10	15 35	5 10	100	0,2	8	350x240	770,-	950-528	1	66,-	-
FTC 60K10 DM	10 20	30 60	10 20	200	0,4	8	350x240	770,-	950-529	1	103,-	-

1 Verification in the factory, location of use with post code required.
 Total balance up to **Max** 15kg: WxDxH 265x335x100mm.
 Total balance from **Max** 15kg (L): WxDxH 360x370x115mm.

PCS: Piece counting with reference 1, 2, 5, 15, 20, 25, 30, 50, 100 pcs.
 Permissible ambient temperature -10 ... +40°C.
 Permissible humidity: 15-80 % (non condensating).

Counting together with a reference balance



* Delivery period
+ 7 days

Counting systems are required when a high degree of counting accuracy is needed or very small parts in large quantities have to be counted.

Quantity balance

It performs the actual counting with high precision.

Take your choice:

KERN ITS for standard applications.

KERN ITT for individual inputs with help of the numerical keypad.

Details see page 38-41

Reference balance

It determines the precise piece weight (=counting weight). The reference balance is firmly attached to the quantity balance via the interface cable.

KERN FTC
Reference balance
verifiable.

Details see page 47



Printout (Example)

N	500 PCS
APW	0.01000 kg
REF	10 PCS
G	6.000 kg
T	1.000 kg
N	5.000 kg



Matrix needle printer,

KERN 911-013, € 330,-

see page 57.

Second data interface required as a separate attachable Y cable,

KERN ITB-A09, € 36,-

Counting system		Quantity balance		+	Reference balance				Total Price * excl. VAT ex works	OPTION	
		Read-out d g	Weighing-range Max kg			Read-out d g	Weighing-range Max kg	Min. piece weight at piece count. g	€	Verification	€
KERN	KERN				KERN					KERN	
ITS-P 40	ITS 15K2 DIPM	215	6115		FTC 3K0.5 DM	0,511	1,513	0,05	1550,-	950-528-527	1 100,-
ITS-P 41	ITS 35K5 DIPM	5110	15135		FTC 3K0.5 DM	0,511	1,513	0,05	1590,-	950-528-527	1 100,-
ITS-P 42	ITS 60K10 DLIPM	10120	30160		FTC 3K0.5 DM	0,511	1,513	0,05	1670,-	950-529-527	1 138,-
ITS-P 43	ITS 150K20 DIPM	20150	601150		FTC 3K0.5 DM	0,511	1,513	0,05	1740,-	950-529-527	1 138,-
ITS-P 47	ITS 300K50 DIPM	501100	1501300		FTC 6K1 DM	112	316	0,1	2130,-	950-529-528	1 149,-
ITT-P 40	ITT 15K2 DIPM	215	6115		FTC 3K0.5 DM	0,511	1,513	0,05	1830,-	950-528-527	1 100,-
ITT-P 41	ITT 35K5 DIPM	5110	15135		FTC 3K0.5 DM	0,511	1,513	0,05	1870,-	950-528-527	1 100,-
ITT-P 42	ITT 60K10 DLIPM	10120	30160		FTC 3K0.5 DM	0,511	1,513	0,05	1960,-	950-529-527	1 138,-
ITT-P 43	ITT 150K20 DIPM	20150	601150		FTC 3K0.5 DM	0,511	1,513	0,05	2020,-	950-529-527	1 138,-
ITT-P 47	ITT 300K50 DIPM	501100	1501300		FTC 6K1 DM	112	316	0,1	2420,-	950-529-528	1 149,-

1 Verification in the factory, location of use with post code required.

* Total price: Quantity balance, Reference balance, Data interface, Interface cable

STANDARD



Counting resolution
up to 1 000 000 Pt.



KERN EW Reference balance

verifiable.
Details see page 14.

Printer see page 48

* **M**
Verification possible

3
Years
Warranty

10
Days
Delivery

* Delivery period
+ 7 days

Counting system	Quantity balance		+	Reference balance			Total Price * excl. VAT ex works €	OPTION	
	KERN	Read-out d g	Weighing-range Max kg	KERN	Read-out d g	Weighing-range Max kg	Min. piece weight at piece count. g	Verification	€
ITS-P 21	ITS 15K2 DIPM	215	6115	EW 600-2M	0,01	600	0,03	1490,-	950-528-116 1 129,-
ITS-P 22	ITS 35K5 DIPM	5110	15135	EW 600-2M	0,01	600	0,03	1530,-	950-528-116 1 129,-
ITS-P 24	ITS 60K10 DLIPM	10120	30160	EW 6000-1M	0,1	6000	0,3	1660,-	950-529-117 1 170,-
ITS-P 25	ITS 150K20 DIPM	20150	601150	EW 6000-1M	0,1	6000	0,3	1730,-	950-529-117 1 170,-
ITS-P 26	ITS 300K50 DIPM	501100	1501300	EW 6000-1M	0,1	6000	0,3	2120,-	950-529-117 1 170,-
ITT-P 21	ITT 15K2 DIPM	215	6115	EW 600-2M	0,01	600	0,03	1770,-	950-528-116 1 129,-
ITT-P 22	ITT 35K5 DIPM	5110	15135	EW 600-2M	0,01	600	0,03	1810,-	950-528-116 1 129,-
ITT-P 24	ITT 60K10 DLIPM	10120	30160	EW 6000-1M	0,1	6000	0,3	1950,-	950-529-117 1 170,-
ITT-P 25	ITT 150K20 DIPM	20150	601150	EW 6000-1M	0,1	6000	0,3	2010,-	950-529-117 1 170,-
ITT-P 26	ITT 300K50 DIPM	501100	1501300	EW 6000-1M	0,1	6000	0,3	2410,-	950-529-117 1 170,-

1 Verification in the factory, location of use with post code required.

STANDARD



Counting resolution
up to 1 000 000 Pt.



KERN 572 Reference balance

not verifiable.
Details see page 16.

Printer see page 48

* **DKD**
Certificate possible

3
Years
Warranty

10
Days
Delivery

* Delivery period
+ 7 days

Counting system	Quantity balance		+	Reference balance			Total Price * excl. VAT ex works €	OPTION	
	KERN	Read-out d g	Weighing-range Max kg	KERN	Read-out d g	Weighing-range Max kg	Min. piece weight at piece count. g	Certificate	DKD
ITS-P 02	ITS 15K0.5 IP	0,5	15	572-33	0,01	650	0,03	1470,-	962-128-116 165,-
ITS-P 03	ITS 35K1 IP	1	35	572-33	0,01	650	0,03	1510,-	962-128-116 165,-
ITS-P 05	ITS 60K2 LIP	2	60	572-49	0,1	10100	0,3	1640,-	962-129-117 215,-
ITS-P 06	ITS 150K5 IP	5	150	572-49	0,1	10100	0,3	1710,-	962-129-117 215,-
ITS-P 08	ITS 300K10 IP	10	300	572-49	0,1	10100	0,3	2100,-	962-129-117 215,-
ITT-P 02	ITT 15K0.5 IP	0,5	15	572-33	0,01	650	0,03	1750,-	962-128-116 165,-
ITT-P 03	ITT 35K1 IP	1	35	572-33	0,01	650	0,03	1790,-	962-128-116 165,-
ITT-P 05	ITT 60K2 LIP	2	60	572-49	0,1	10100	0,3	1930,-	962-129-117 215,-
ITT-P 06	ITT 150K5 IP	5	150	572-49	0,1	10100	0,3	1990,-	962-129-117 215,-
ITT-P 08	ITT 300K10 IP	10	300	572-49	0,1	10100	0,3	2390,-	962-129-117 215,-

* Total price: Quantity balance, Reference balance, Data interface, Interface cable

Industrial balances with laboratory accuracy

* **DKD**
Certificate
possible

3
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days



- 2 new models
- Further weighing units
- Weighing ranges increased

Weighing plate
stainless steel
310 x 310 x 60 mm
450 x 350 x 115 mm

Self-explanatory user guide via YES/NO-dialogue in the display



Precise counting

Step by step the automatic reference optimisation improves the average value of the piece weight

Conversions

freely programmable, e.g. display directly in wire lengths g/m, surface weights g/m² or similar

Display device versatile positionable:

- screwed to the front, standard
- separate standing, cable length approx. 1.5 m
- screwed to the wall, wall mounting standard

Set for underfloor weighing, with platform, handle, hook. Models with platform size 310 x 310 mm only, **KERN DS-A01, € 80,-**

Preliminary subtraction of tare weight for the known container weight. Useful when checking weights

Protective working cover over display device standard.

Can be reordered any time, **KERN DE-A02, € 10,-**



Adjusting programme CAL, external test weights additional price



Accu-supply, external, approx. 50 h, **KERN KS-A01, € 190,-**

① **Statistics printer,** **KERN YKT-01, € 590,-**

STANDARD



only with ①



OPTION



Model	Read-out d g	Weighing-range Max kg	Repro-ducibility g	Linearity g	Min. piece weight at piececount. g	Net weight approx. kg	Weighing-plate stainl. steel mm	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN									KERN	€
☺ DS 3K0.05	0,05	3,1	0,05	± 0,15	0,15	7,5	310 x 310	810,-	963-127	75,-
DS 8K0.1	0,1	☺ 8,1	0,1	± 0,3	0,3	7,5	310 x 310	810,-	963-128	90,-
DS 16K0.2	0,2	16,1	0,2	± 0,6	0,6	7,5	310 x 310	810,-	963-128	90,-
DS 36K0.5	0,5	36,1	0,5	± 1,5	1,5	7,5	310 x 310	810,-	963-128	90,-
☺ DS 36K0.5 L	0,5	36,1	0,5	± 1,5	1,5	12,5	450 x 350	990,-	963-128	90,-
DS 65K1	1	65,1	1	± 3	3	12,5	450 x 350	990,-	963-129	125,-
DS 12K2	2	121	2	± 6	6	12,5	450 x 350	990,-	963-129	125,-

Display device WxDxH 200x100x55mm.
LCD display with digit height 14 mm.

PCS: Piece counting with reference 1, 5, 10, 20 pieces.

☺ **UNITS:** Further weighing units: lb, oz, ozt, dwt, tLT, tLH, tLM.

Top technology with high resolution

KERN 880
 Industrial balance

STANDARD



OPTION


 * Delivery period
+ 7 days

Roll stop barrier

Capacity display

A bar graph shows the current available weighing range

Protective working cover
 over the display device standard.

Can be reordered any time,
KERN 880-903, € 10,-


Automatic internal adjusting

can be programmed to any time of the day. Subsequent automatic adjusting every 24 hours or after a temperature change of > 5°C

Extensive software

User guide with plain text on the display.


Protection class IP 65

when ordering, state
KERN 880-810, € 173,-

Luminescent LED display
 digit height 13 mm



Statistics printer,
KERN YKT-01, € 590,-

Matrix needle printer,
 no picture,
KERN 911-013, € 330,-
 see page 57

Model	Read-out d g	Weighing-range Max g	Verific. value e g	Min. load Min g	Repro-ducibility g	Linearity g	Min. piece weight at piece count. g	Price € excl. of VAT ex works	ALTERNATIVE			
									Veri-fication KERN	M II €	Certi-ficate KERN	DKD €
KERN 880-22	0,1	30100	1	5	0,1	± 0,2	0,1	3120,-	950-117	1 83,-	963-117	90,-
880-32	1	30100	1	50	0,5	± 1	1	2710,-	950-117	1 83,-	963-117	90,-
880-74	7 0,1	5200	1	5	0,1	± 0,2	0,1	2710,-	950-528	1 91,-	963-528	90,-
	1	24100			0,5	± 1						

1 Verification in the factory. **7** Fine range available across the entire weighing range by taring.
 Total balance WxDxH 375x400x130 mm.

PCS: Piece counting with reference 1- 255 pieces.
 Permissible ambient temperature +10 ... +30°C.
 Net weight approx. 14,5 kg.



2
Years
Warranty

24
Hours
Delivery

KERN MH

Three in one: Balance, Thermometer, Clock

Hand strap

Data hold function

The display is "frozen" automatically for approx. 7 sec, as soon as the weighing value remains unchanged

Hook

stainless steel, can be hinged



Ready for use

Batteries size AA (2 x 1.5 V) inclusive.
AUTO-OFF function after 5 min to preserve the battery. Operation time approx. 250 h

KERN CH

Data hold function

The display can be "frozen" via the MODE key for approx. 5 sec

Tape measure
extractable
(length 100 cm)

Hook

stainless steel



Ready for use

Block-battery (9 V) inclusive.
AUTO-OFF function after 3 min to preserve the battery

Model	Read-out d g	Weighing-range Max kg	Price € excl. of VAT ex works
KERN			
MH 5K5	5	5	40,-
MH 10K10	10	10	40,-

Casing WxDxH 70x25x100 mm
(with hook 140 mm). Net weight approx. 150 g.
LCD display with digit height 12 mm.
Temperature display -10 ... +40°C, division 1°C.

Practical and always at hand



Model	Read-out d g	Weighing-range Max kg	Price € excl. of VAT ex works
KERN			
CH 15K20	20	15	65,-
CH 50K50	50	50	70,-
CH 50K100	100	50	55,-

Casing WxDxH 90x30x175 mm
(with hook 270 mm). Net weight approx. 250 g.
LCD display with digit height 11 mm.

KERN MH•CH

Accessories:



Angle bracket,
KERN CH-A03, € 20,-

Strap, length 375 mm,
width 35 mm,
KERN CH-A04, € 15,-



Ø 290 mm x 45 mm

Pan beam, approx. 400 g,
beam height 390 mm,
KERN CH-A02, € 42,-

Tare pan, approx. 300 g,
KERN CH-A01, € 17,-.

The compact one up to 200 kg

Carabine hook
stainless steel standard,
with safety catch.
Aperture 15 mm.
Can be reordered any time,
KERN HCB-A01, € 12,-

Data hold function
The display can be "frozen"
via the MODE key for
approx. 5 sec

Ready for use
Batteries size AA (3 x 1.5 V)
inclusive. AUTO-OFF func-
tion after 3 min to preserve
the battery. Operation time
approx. 300 h

S-hook
stainless steel, standard.
Aperture approx. 25 mm.
Can be reordered any time,
HCB-A02, € 10,-

KERN HCB Hanging balance

* **DKD**
Certificate
possible

2
Years
Warranty

24
Hours
Delivery

* Delivery period
+ 7 days

STANDARD



Model	Read- out d g	Weighing- range Max kg	Price € excl. of VAT ex works	OPTION Certificate DKD
KERN				KERN €
HCB 20K50	50	20	110,-	963-128 90,-
HCB 50K100	100	50	120,-	963-128 90,-
HCB 100K200	200	100	140,-	963-129 125,-
HCB 200K500	500	200	160,-	963-129 125,-

Casing WxDxH 80x45x150 mm. Net weight approx. 400 g.
Total height with carabine and S-hook 290 mm.
LCD display with digit height 12 mm.





* Delivery period
+ 7 days

**Rear illuminated
LCD display,**
digit height 23 mm



**Adjusting
programme CAL,**
external test weights
additional price



Accu-supply,
internal, standard.
Operation time approx.
120 h. Charging time approx.
8 h with mains adapter



**Infrared
remote control**
standard. Range
approx. 2,5 m.
All functions (except
ON/OFF) are selectable.
W x D x H
120 x 60 x 15 mm



Ready for use
Batteries Size AAA
(2 x 1,5 V) inclusive

Loop
Steel, turnable. Aperture
approx. 24 mm wide



**Tried and tested
safety** up to 1.3 times
the weighing range **Max**



Tare: put back displayed
value to "0" during weighing
process. Now removed or
added loads are directly
displayed

Data hold function
The display is "frozen" via
the HOLD key until any key
is pressed again

Casing
WxDxH 150x140x155 mm,
total length from eye to hook
360 mm (**HUS 600**: 380 mm)

Charge display
visual via LED

Hook
with safety catch.
Stainless steel, turnable.
Aperture approx. 20 mm
(**HUS 600**: approx. 24 mm)

STANDARD



Model	Read- out d g	Weighing- range Max kg	Price € excl. of VAT ex works	OPTION Certificate DKD	
KERN				KERN	€
HUS 60K20	20	60	620,-	963-129	125,-
HUS 150K50	50	150	660,-	963-129	125,-
HUS 300K100	100	300	710,-	963-129	125,-
HUS 600K200	200	600	750,-	963-130	300,-

Precision 0.2% of **Max**.

Net weight approx. 4 kg.



STANDARD



Simultaneous weighing and transporting up to 7500 kg



Tried and tested safety up to 1.3 times the weighing range **Max**

Metal casing

Luminescent digits LED display,
digit height 25 mm

Accu-supply,

internal, standard. Operation time approx. 80 h. Charging time approx. 8 h with mains adapter. Selectable: AUTO-OFF function after 4 min or continuous operation

Radio remote

control standard. Range approx. 25 m. All functions can be selected. W x D x H 65 x 40 x 15 mm

Ready to use
Battery (23A, 12V) incl.



Hook with safety catch. Turnable for models **KERN HUM 1000 K 500** and **HUM 3000 K 1000**



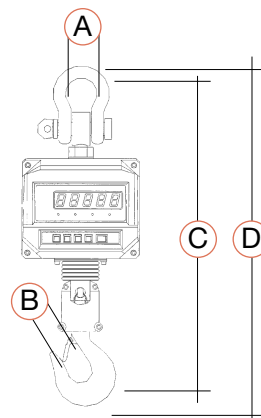
Tare: put back displayed value to "0" during weighing process. Now removed or added loads are directly displayed

Data hold function

The display is "frozen" via the HOLD key until any key is pressed again



Adjusting programme CAL, external test weights additional price



Model	Read-out d	Weighing-range Max	Net weight kg	Casing WxDxH mm	Dimensions				Price € excl. of VAT ex works	OPTION	
					A	B	C	D		Certificate DKD	€
KERN	g	kg	kg	mm	mm	mm	mm	mm		KERN	
HUM 1000K500	500	1000	17	210 x 228 x 180	56	42	550	620	1190,-	963-130	300,-
HUM 3000K1000	1000	3000	18	210 x 228 x 180	73	45	580	650	1450,-	-	-
HUM 5000K2000	2000	5000	38	210 x 228 x 180	98	52	790	890	1990,-	-	-
HUM 7500K5000	5000	7500	38	210 x 228 x 180	98	52	790	890	2200,-	-	-

Precision 0.2% of **Max**.

KERN HUM
Crane balance

* **DKD**
Certificate possible

3
Years
Warranty

24
Hours
Delivery

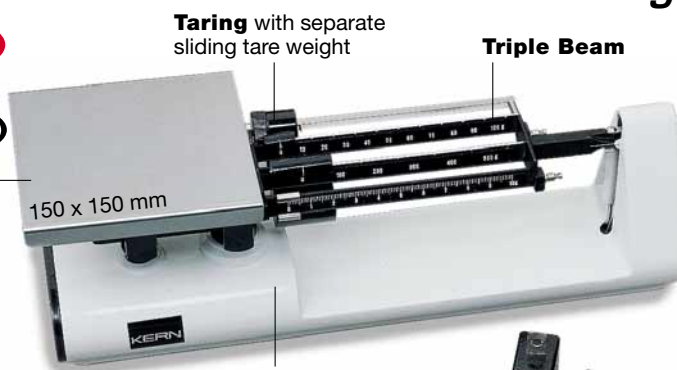
* Delivery period
+ 7 days

INDUSTRIAL BALANCES

Precise, sturdy, robust and hardwearing

2
Years
Warranty

24
Hours
Delivery



Weighing plate
stainless steel

Taring with separate
sliding tare weight

Triple Beam

**Light metal
casing**



Hanging weights

Sliding weight balance

Model KERN	173-23
Read out	d 0,1 g
Weighing range	Max 2 610 g
Tare range	Tare 0-250 g
Net weight approx.	3 000 g

Price excl. VAT, ex works € 185,-

W x D x H 450 x 150 x 160 mm.
With magnetic damping.



Never lost
all weights are firmly
attached to the balance

Sliding weight balance

Model	Read- out d g	Weighing- range Max g	Price € excl. of VAT ex works
KERN			
150-13	8 0,01	301	162,-
150-23	8 0,01	101	112,-
150-73	0,05	301	97,-
150-83	0,05	101	70,-

8 With magnetic damping. Weighing pan
Ø 90 mm, beam height 150 mm.

Spring balances

with precision $\pm 0.3\%$ of load.
Tare range is 20% of **Max**.
A conversion to pressure measure-
ment is possible up from **Max** 300 g.

The models **KERN 285** are equipped
with clip and hook.

Special models, e.g. with newton
unit and further equipment see
KERN brochure "Spring balances".
Please request, free of charge.



Model	Divi- sion d g	Weighing- range Max g	Load- bearing with	Unit length mm	Price € excl. of VAT ex works
KERN					
281-101	0,1	10	☞	80	39,-
281-151	0,25	30	☞	80	32,-
281-201	0,5	60	☞	80	32,-
281-301	1,0	100	☞	80	32,-
281-401	5 2,0	300	☞	100	34,-
281-451	5 5,0	600	☞	100	34,-
281-601	5 10,0	1 000	☞	100	34,-
281-752	5 20,0 g	2 500 kg	☞	100	34,-
285-052	6 50	5	☞	140	82,-
285-102	6 100	10	☞	140	83,-
285-202	6 200	20	☞	140	87,-
285-352	6 500	35	☞	90	91,-
285-502	6 500	50	☞	90	112,-
285-802	6 1000	100	☞	80	183,-

Pressure set for models **5** KERN 281-890 and models **6**
KERN 285-890 available, additional price € 19,-.

Statistics printer,

GLP capable, for KERN balances (see table on the right, column **YKT-01**) with data interface RS 232 C. Quiet and fast thermo printer with 5 lines/sec and max. 24 taps/line. Dual display for simple dialogue operation. Automatic call up of readings via adjustable time interval of 1 sec to 99 h. Determination of statistical characteristic values.



GLP recording of the adjusting of the balance.
Date and time started. Paper strips 58 mm wide. Dimensions WxDxH 215x116x85 mm. Operation through mains adapter 230V/50Hz (standard) or batteries size AA (6x1,5V, not standard). Please state balance model so that the printer can be pre-configured.
Price without interface cable.
KERN YKT-01, € 590,-

Matrix needle printer

for all KERN balances (excl. KERN GS, GJ and 770) with data interface R 232 C for transmission of weighing data. Dimensions W x D x H 105 x 180 x 90 mm,



paper width 55 mm. Please indicate the balance model on your order, so that the printer can be preconfigured. Delivery without interface cable,
KERN 911-013, € 330,-



Hook thermometer, temperature range +10... +30°C, division 0.1°C, total length approximate 170 mm, verifiable,
KERN 152-536, € 63,-



Underfloor weighing board

made of aluminium. Variably adjustable lower plate, 4 feet screws, W x D x H 350 x 290 x 370 mm,
KERN 904-101, € 310,-



Plummet for density determination of liquids. Material glass, hanging on a platinum wire. Volume 10 cm³, total weight 30 g, total length 169 mm, verifiable,
KERN 152-532, € 97,-



Tare pan of stainless steel, polished, Ø 290 mm, height 45 mm, weight approx. 300g. Suitable for all laboratory balances,
KERN CH-A01, € 17,-

Buy balance and printer together, then the interface cable is supplied as standard



Interface cable, length approx. 1,5 m

Connection of balance to:	Printer			PC
	911-013	911-017	YKT-01	
Balance Model	Order-no.	Order-no.	Order-no.	Order-no.
440, 572, CB, DE, DS, KB	572-928		572-926	572-926
470, 880	770-928		770-926	770-926
474	474-928		474-926	474-926
EG, EW	474-928			474-926
770, GS/GJ, CGB	770-928	770-928		770-926
ABS, ABJ	ABS-A06		ABS-A05	ABS-A05
ITB, ITS, ITT, FTB, FTC	ITB-A06			ITB-A05
MLB	MLB-A06			MLB-A05
PB	PB-A06		PB-A05	PB-A05
RH	770-928			770-926

Price per cable, excl. VAT, ex works € 46,-

Balance Model	Order-no.	Order-no.	Order-no.
ARS, ARJ, PRS, PRJ	PR-A24	PR-A23	PR-A23

Price per cable, excl. VAT, ex works € 111,-

PC balance software

Balance Connection KERN SCE-3.0

PC-Software for the direct transfer of weighing data in the Windows application. Graphic presentation of values and data including interpolations. With date and time. Direct comparison of values. Statistical calculations such as standard deviation, average, etc. Calculation of the density of fluids and solids. Scope of delivery: software on 3.5 inch diskettes and manual. Interface cable necessary (see above).

Price excl. VAT, ex works € 250,-

BalanceCal KERN SBE-3.0

Calibration programme for balances. PC-Software for checking correctness of balances, e.g. within the scope of testing control to ISO 9000 ff or to GLP (good laboratory practice). BalanceCal leads you through the test supported by your computer and issues at the end the correct test recording. Filing away of all data including the test weights in the data base. Activating the date of recalibration is possible. Scope of delivery: software on 3.5 inch diskettes, manual with test instructions. Interface cable is necessary (see above).

Price excl. VAT, ex works € 250,-

BalanceCal Light KERN SBE-1.0L

Calibration programme for balances, similar to BalanceCal (see above) but testing with only one test weight. PC software, menu controlled, including test recording. A good complement to the test weight which KERN supplies as standard with laboratory balances.

All software programmes as demonstration versions free of charge on the internet, downloadable.

Accessories for test weights



Tweezers, stainless steel for gentle access of the weights. Covered tips for models with length 105 mm and 250 mm
Length 100 mm **KERN 315-240** € 6,60
Length 105 mm **KERN 315-243** € 15,00
Length 250 mm **KERN 315-245** € 26,00



Glove, cotton, for protection of test weights,
KERN 317-280, € 2,-



Dust brush for cleaning the test weights
KERN 318-270, € 4,10

We guarantee your precision...

...in our accredited DKD laboratory we test, adjust and certify your balances and weights and in this way help you to maintain your high quality standard.





When a company becomes accredited to **ISO 9000ff**, it agrees to periodically test the precision of all measuring equipment within its quality assurance systems (ISO 9000, QS 9000, GLP, GLM). This is also required for its weighing measuring equipment.

DKD calibration certificates for balances



The **DKD calibration certificate** confirms the precision of a balance. It ensures as well that the balance verification has considered all relevant measurement values including measurement uncertainty and traceability of the test weights to the National Standard.

DKD calibration certificate for balances (Extract)

DEUTSCHER KALIBRIERDIENST DKD Calibration laboratory for mechanical quantities ACCREDITED BY THE PHYSIKALISCH-TECHNISCHE BUNDESANSTALT (PTB)		 Muster DKD-K-11801 02-06
KERN Gottl. KERN & Sohn GmbH Oldest European Manufacturer of Precision Balances since 1844		
Calibration Certificate		Calibration mark
Object	Precision Balance	This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).
Manufacturer	Gottl. KERN & Sohn GmbH D-72336 Balingen	
Type	EG 300-3	
Serial number	WC0046488	
Customer	Mustermann GmbH	

Measuring results

1. Repeatability

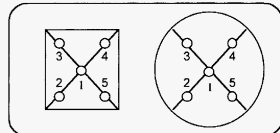
Load = 50 g	
Measuring	Indication
No. 1	50.001 g
No. 2	50.000 g
No. 3	50.001 g
No. 4	50.000 g
No. 5	49.999 g
No. 6	50.001 g

2. Linearity

Tara Load	Load	Indication
0 g	70 g	69.999 g
0 g	150 g	150.000 g
0 g	220 g	220.000 g
0 g	300 g	300.001 g
100 g	70 g	69.999 g
100 g	150 g	150.000 g

3. Eccentricity

Load = 100 g	
Position	Indication
No. 1	100.000 g
No. 2	100.001 g
No. 3	99.999 g
No. 4	100.000 g
No. 5	100.001 g

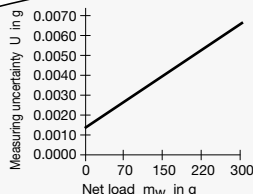


Measuring uncertainty

Total measuring uncertainty U is:

$$U = 0.0014 \text{ g} + 1.8 \times 10^{-5} \times m_W$$

m_W = net display with increasing load



The expanded measuring uncertainty is calculated by multiplication of the standard measuring uncertainty with the expansion factor $k = 2$. It was determined according to DKD-3. The value of the test weight is normally with a probability of nearly 95 % within the assigned value interval.

In our **calibration laboratory** accredited to PTB, no. DKD-K-11801, we issue internationally valid **DKD calibration certificates for balances and test weights**. This calibration service is **independent of the brand**.

DKD calibration certificates for test weights



We can supply **new single weights or sets of weights** (e.g. the test weights on page 46-49) with suitable DKD calibration certificates on request (see page 46-49). **Older weights** can be reconditioned and readjusted and then certified (addit. price). Periodic **recalibrations**: we will be pleased to implement the customer's schedule.

DKD calibration certificate for weights (Extract)

DEUTSCHER KALIBRIERDIENST DKD Calibration laboratory for mechanical quantities ACCREDITED BY THE PHYSIKALISCH-TECHNISCHE BUNDESANSTALT (PTB)		 Muster DKD-K-11801 02-06
KERN Gottl. KERN & Sohn GmbH Oldest European Manufacturer of Precision Balances since 1844		
Calibration Certificate		Calibration mark
Object	Set of weights, 1 mg - 1 kg, Class F1	This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).
Manufacturer	Gottl. KERN & Sohn GmbH D-72336 Balingen	
Serial number	G012853	
Customer	Mustermann GmbH	

Ambient conditions

	from	to
Temperature / °C	22.82	22.85
Relative humidity / %	49.5	50.5
Air pressure / mbar	965.7	965.8

Material / Assumed density

Nominal value	Material	Shape	Density kg/m³	Uncertainty kg/m³
1 - 5 mg	Aluminium	Flat sheet	2700	130
10 - 500 mg	German silver	Flat sheet	8600	170
1 g - 1 kg	Stainl. steel	Cylindrical	8000	100

Measurement results

Nom. value	Mark-ing	Conventional mass	Uncer-tainty U	Max. perm. error
50 g		50 g + 0.08 mg	0.1 mg	± 0.3 mg
100 g		100 g - 0.07 mg	0.15 mg	± 0.5 mg
200 g		200 g + 0.43 mg	0.3 mg	± 1 mg
200 g	*	200 g - 0.31 mg	0.3 mg	± 1 mg
500 g		500 g - 0.58 mg	0.75 mg	± 2.5 mg
1 kg		1 kg + 1.9 mg	1.5 mg	± 5 mg

The conventional mass of the weight is in accordance with the maximum permissible error of class F1 according to OIML-R111.

Further details on the internet.



The selection of the suitable test weight for your balance:

Quality of the test weight: a balance can never be more accurate than the test weight used to adjust it – it depends on its tolerance.

Weight size: this is shown in the adjust mode "CAL" in the balance display. Given the choice the heaviest weight is the most suitable for accurate measurement.

Accuracy of the test weight: should correspond to the readout **d** of the balance, ideally a little better.

Once weight size (nominal value) and accuracy are specified, the suitable test weight is selected according to the specifications of the individual classes of accuracy E2, F1 and M1, see column "Tol±mg".

Example: balance with weighing range **Max** 2000 g = 2 kg and readout **d** = 0.01 g = 10 mg

- Weight size in balance display at "CAL": 1000 g or 2000 g. The required test weight therefore has the weight size of 2 kg
- The exactness of the required test weight is determined by readout **d** with approximate ± 10 mg
- Suitable test weight with tolerance ± 10 mg and weight size 2 kg stands in class of accuracy F1 at **KERN No. 327-72**

Exception analytical balances (readout **d** = 0.1 mg):

Accuracy of test weight between 3 to 10 d.

Depending on the safety requirement the optimum is class E2 or F1.

E2

Milligram weights flat polygonal sheets

KERN-No.		Tol ±mg	€
318-01	1 mg	0,006	25,-
318-02	2 mg	0,006	25,-
318-03	5 mg	0,006	25,-
318-04	10 mg	0,008	25,-
318-05	20 mg	0,010	25,-
318-06	50 mg	0,012	25,-
318-07	100 mg	0,015	25,-
318-08	200 mg	0,020	25,-
318-09	500 mg	0,025	25,-

Wooden boxes, lined

KERN-No.	€
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-
338-090-200	14,-

DKD- Certificate

KERN-No.	€
962-351	40,-
962-352	40,-
962-353	40,-
962-354	40,-
962-355	40,-
962-356	40,-
962-357	40,-
962-358	40,-
962-359	40,-

Package order

KERN-No.	€
318-012-600	79,-
318-022-600	79,-
318-032-600	79,-
318-042-600	79,-
318-052-600	79,-
318-062-600	79,-
318-072-600	79,-
318-082-600	79,-
318-092-600	79,-

E2

Single weights stainless steel

KERN-No.		Tol ±mg	€
317-01	1 g	0,03	53,-
317-02	2 g	0,04	57,-
317-03	5 g	0,05	60,-
317-04	10 g	0,06	63,-
317-05	20 g	0,08	73,-
317-06	50 g	0,10	85,-
317-07	100 g	0,15	92,-
317-08	200 g	0,30	115,-
317-09	500 g	0,75	170,-
317-11	1 kg	1,5	250,-
317-12	2 kg	3,0	400,-
317-13	5 kg	7,5	600,-
317-14	10 kg	15,0	850,-
317-15	20 kg	30,0	1.300,-
317-16	50 kg	75,0	2.700,-

Wooden boxes, lined

KERN-No.	€
317-010-100	27,-
317-020-100	27,-
317-030-100	27,-
317-040-100	27,-
317-050-100	27,-
317-060-100	27,-
317-070-100	27,-
317-080-100	27,-
317-090-100	30,-
317-110-100	34,-
317-120-100	43,-
317-130-100	64,-
317-140-100	86,-
317-150-100	330,-
317-160-100	405,-

DKD- Certificate

KERN-No.	€
962-331	40,-
962-332	40,-
962-333	40,-
962-334	40,-
962-335	40,-
962-336	40,-
962-337	45,-
962-338	45,-
962-339	45,-
962-341	45,-
962-342	50,-
962-343	50,-
962-344	55,-
962-345	70,-
962-346	70,-

Package order

KERN-No.	€
317-011-600	120,-
317-021-600	124,-
317-031-600	127,-
317-041-600	130,-
317-051-600	140,-
317-061-600	152,-
317-071-600	164,-
317-081-600	187,-
317-091-600	245,-
317-111-600	329,-
317-121-600	493,-
317-131-600	714,-
317-141-600	991,-
317-151-600	1700,-
317-161-600	3175,-

Sets of weights, stainless steel, in wooden box

KERN-No.	€
318-22	1 mg-500 mg 325,-
313-02	1 mg- 50 g 920,-
313-03	1 mg- 100 g 1.010,-
313-04	1 mg- 200 g 1.250,-
313-05	1 mg- 500 g 1.470,-
313-06	1 mg- 1 kg 1.730,-
313-07	1 mg- 2 kg 2.580,-
313-08	1 mg- 5 kg 3.270,-
313-09	1 mg- 10 kg 4.200,-
314-02	1 g- 50 g 620,-
314-03	1 g- 100 g 710,-
314-04	1 g- 200 g 950,-
314-05	1 g- 500 g 1.170,-
314-06	1 g- 1 kg 1.430,-
314-07	1 g- 2 kg 2.270,-
314-08	1 g- 5 kg 2.970,-
314-09	1 g- 10 kg 3.890,-



Fully lined wooden box. With tweezers and dust brush.

DKD- Certificate

KERN-No.	€
962-350	336,-
962-301	560,-
962-302	593,-
962-303	659,-
962-304	692,-
962-305	725,-
962-306	801,-
962-307	839,-
962-308	882,-
962-315	224,-
962-316	257,-
962-317	323,-
962-318	356,-
962-319	389,-
962-320	465,-
962-321	503,-
962-322	546,-

Package order

KERN-No.	€
318-221-600	661,-
313-021-600	1480,-
313-031-600	1603,-
313-041-600	1909,-
313-051-600	2162,-
313-061-600	2455,-
313-071-600	3381,-
313-081-600	4109,-
313-091-600	5082,-
314-021-600	844,-
314-031-600	967,-
314-041-600	1.273,-
314-051-600	1.526,-
314-061-600	1.819,-
314-071-600	2.735,-
314-081-600	3.473,-
314-091-600	4.436,-

F1 Milligram weights
flat polygonal sheets

KERN-No.	Tol	±mg	€
328-01	1 mg	0,020	13,-
328-02	2 mg	0,020	13,-
328-03	5 mg	0,020	13,-
328-04	10 mg	0,025	13,-
328-05	20 mg	0,030	13,-
328-06	50 mg	0,040	13,-
328-07	100 mg	0,050	13,-
328-08	200 mg	0,060	13,-
328-09	500 mg	0,080	13,-

Standard boxes
lined

KERN-No.	€
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-

DKD-
Certificate

KERN-No.	€
962-451	21,-
962-452	21,-
962-453	21,-
962-454	21,-
962-455	21,-
962-456	21,-
962-457	21,-
962-458	21,-
962-459	21,-

Package
order

KERN-No.	€
328-014-600	36,-
328-024-600	36,-
328-034-600	36,-
328-044-600	36,-
328-054-600	36,-
328-064-600	36,-
328-074-600	36,-
328-084-600	36,-
328-094-600	36,-

F1 Single weights
nickelplated brass

KERN-No.	Tol	±mg	€
327-61	1 g	0,10	23,-
327-62	2 g	0,12	24,-
327-63	5 g	0,15	26,-
327-64	10 g	0,20	28,-
327-65	20 g	0,25	30,-
327-66	50 g	0,30	32,-
327-67	100 g	0,50	38,-
327-68	200 g	1,00	50,-
327-69	500 g	2,50	70,-
327-71	1 kg	5	100,-
327-72	2 kg	10	150,-
327-73	5 kg	25	260,-
327-74	10 kg	50	480,-
327-75	20 kg	100	810,-
327-76	50 kg	250	1600,-

Standard boxes
lined

KERN-No.	€
347-030-400	2,-
347-030-400	2,-
347-030-400	2,-
347-050-400	2,-
347-050-400	2,-
347-070-400	2,-
347-070-400	2,-
347-080-400	2,-
347-090-400	3,-
347-110-400	3,-
347-120-400	3,-
347-130-400	9,-
347-140-400	9,-
317-150-100	330,-
317-160-100	405,-

DKD-
Certificate

KERN-No.	€
962-431	21,-
962-432	21,-
962-433	21,-
962-434	21,-
962-435	21,-
962-436	21,-
962-437	25,-
962-438	25,-
962-439	25,-
962-441	25,-
962-442	30,-
962-443	30,-
962-444	30,-
962-445	45,-
962-446	45,-

Package
order

KERN-No.	€
327-614-600	46,-
327-624-600	47,-
327-634-600	49,-
327-644-600	51,-
327-654-600	53,-
327-664-600	55,-
327-674-600	65,-
327-684-600	77,-
327-694-600	98,-
327-714-600	128,-
327-724-600	183,-
327-734-600	299,-
327-744-600	519,-
327-751-600	1185,-
327-761-600	2050,-

F1 Sets of weights, nickelplated
brass, in wooden box

KERN-No.	€
328-22 1 mg-500 mg	183,-
323-62 1 mg- 50 g	480,-
323-63 1 mg- 100 g	520,-
323-64 1 mg- 200 g	620,-
323-65 1 mg- 500 g	740,-
323-66 1 mg- 1 kg	850,-
323-67 1 mg- 2 kg	1190,-
323-68 1 mg- 5 kg	1550,-
323-69 1 mg- 10 kg	2110,-
324-62 1 g- 50 g	320,-
324-63 1 g- 100 g	355,-
324-64 1 g- 200 g	455,-
324-65 1 g- 500 g	580,-
324-66 1 g- 1 kg	690,-
324-67 1 g- 2 kg	1.030,-
324-68 1 g- 5 kg	1.390,-
324-69 1 g- 10 kg	1.950,-

Fully lined wooden
box. With tweezers
and dust brush.DKD-
Certificate

KERN-No.	€
962-450	108,-
962-401	180,-
962-402	193,-
962-403	219,-
962-404	232,-
962-405	245,-
962-406	281,-
962-407	299,-
962-408	317,-
962-415	72,-
962-416	85,-
962-417	111,-
962-418	124,-
962-419	137,-
962-420	173,-
962-421	191,-
962-422	209,-

Package
order

KERN-No.	€
328-221-600	291,-
323-621-600	660,-
323-631-600	713,-
323-641-600	839,-
323-651-600	972,-
323-661-600	1095,-
323-671-600	1471,-
323-681-600	1849,-
323-691-600	2427,-
324-621-600	392,-
324-631-600	440,-
324-641-600	566,-
324-651-600	704,-
324-661-600	827,-
324-671-600	1.203,-
324-681-600	1.581,-
324-691-600	2.159,-

Individual weight and weight sets F1 also available in **stainless steel**, please request or ask for weights price list.

But if you do not need a complete set of weights, then you may ...

Wooden Boxes for individual
sets of weights, E2, F1

KERN-No.	Size	€
315-040-100	200 g	120,-
315-050-100	500 g	170,-
315-060-100	1 kg	180,-
315-070-100	2 kg	240,-
315-080-100	5 kg	340,-
315-090-100	10 kg	450,-

... select your own "tailor-made" individual set of
weights. **KERN** manufactures your personal box, which
takes approximately seven weights of your choice. The
highest fitting single weight is indicated in the table left.**Sample order:** the highest weight in your individual set
of weights is 2 kg. The suitable individual box has the
size 2 kg, its **KERN No.** is **315-070-100**.

M1
Milligram weights
flat polygonal sheets

KERN-No.	Tol	±mg	€
348-01	1 mg	0,20	4,-
348-02	2 mg	0,20	4,-
348-03	5 mg	0,20	4,-
348-04	10 mg	0,25	4,-
348-05	20 mg	0,30	4,-
348-06	50 mg	0,40	4,-
348-07	100 mg	0,50	4,-
348-08	200 mg	0,60	4,-
348-09	500 mg	0,80	4,-

Standard boxes
lined

KERN-No.	€
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-
347-009-400	2,-

DKD-Certificate

KERN-No.	€
962-651	18,-
962-652	18,-
962-653	18,-
962-654	18,-
962-655	18,-
962-656	18,-
962-657	18,-
962-658	18,-
962-659	18,-

Package order

KERN-No.	€
348-014-600	24,-
348-024-600	24,-
348-034-600	24,-
348-044-600	24,-
348-054-600	24,-
348-064-600	24,-
348-074-600	24,-
348-084-600	24,-
348-094-600	24,-

M1
Single weights
finely turned brass

KERN-No.	Tol	±mg	€
347-41	1 g	1,0	4,00
347-42	2 g	1,2	4,30
347-43	5 g	1,5	4,70
347-44	10 g	2,0	5,10
347-45	20 g	2,5	5,50
347-46	50 g	3,0	6,50
347-47	100 g	5,0	8,30
347-48	200 g	10	13,00
347-49	500 g	25	27,00
347-51	1 kg	50	42,00
347-52	2 kg	100	75,00
347-53	5 kg	250	160,00
347-54	10 kg	500	300,00

Standard boxes
lined

KERN-No.	€
347-030-400	2,-
347-030-400	2,-
347-030-400	2,-
347-050-400	2,-
347-050-400	2,-
347-070-400	2,-
347-070-400	2,-
347-080-400	2,-
347-090-400	3,-
347-110-400	3,-
347-120-400	3,-
347-130-400	9,-
347-140-400	9,-

DKD-Certificate

KERN-No.	€
962-631	18,-
962-632	18,-
962-633	18,-
962-634	18,-
962-635	18,-
962-636	18,-
962-637	18,-
962-638	18,-
962-639	18,-
962-641	18,-
962-642	18,-
962-643	18,-
962-644	21,-

Package order

KERN-No.	€
347-414-600	24,00
347-424-600	24,30
347-434-600	24,70
347-444-600	25,10
347-454-600	25,50
347-464-600	26,50
347-474-600	28,30
347-484-600	33,00
347-494-600	48,00
347-514-600	63,00
347-524-600	96,00
347-534-600	187,00
347-544-600	330,00

M1
Sets of weights, finely turned brass, in wooden box

KERN-No.	€
348-22 1 mg-500 mg	67,-
343-42 1 mg- 50 g	145,-
343-43 1 mg- 100 g	157,-
343-44 1 mg- 200 g	185,-
343-45 1 mg- 500 g	215,-
343-46 1 mg- 1 kg	295,-
343-47 1 mg- 2 kg	470,-
343-48 1 mg- 5 kg	690,-
343-49 1 mg- 10 kg	1050,-
344-42 1 g- 50 g	79,-
344-43 1 g- 100 g	91,-
344-44 1 g- 200 g	120,-
344-45 1 g- 500 g	153,-
344-46 1 g- 1 kg	245,-
344-47 1 g- 2 kg	415,-
344-48 1 g- 5 kg	630,-
344-49 1 g- 10 kg	990,-



Wooden Box, with tweezers.

DKD-Certificate

KERN-No.	€
962-650	84,-
962-601	140,-
962-602	147,-
962-603	161,-
962-604	168,-
962-605	175,-
962-606	189,-
962-607	196,-
962-608	206,-
962-615	56,-
962-616	63,-
962-617	77,-
962-618	84,-
962-619	91,-
962-620	105,-
962-621	112,-
962-622	122,-

Package order

KERN-No.	€
348-224-600	151,-
343-422-600	285,-
343-432-600	304,-
343-442-600	346,-
343-452-600	383,-
343-462-600	470,-
343-472-600	659,-
343-482-600	886,-
343-492-600	1256,-
344-422-600	135,-
344-432-600	154,-
344-442-600	197,-
344-452-600	237,-
344-462-600	336,-
344-472-600	520,-
344-482-600	742,-
344-492-600	1.112,-



Single weights and sets of weights also available in **nickelplated brass**, please request or order price list of weights. **Wooden boxes for individual sets of weights** available in class M1, please request or order price list of weights.

Rectangular weights
cast iron, lacquered

KERN-No.	Tol	±g	€
346-86	5 kg	0,25	60,-
346-87	10 kg	0,50	80,-
346-88	20 kg	1,00	115,-
346-89	50 kg	2,50	300,-


DKD-Certificate

KERN-No.	€
962-643	18,-
962-644	21,-
962-645	30,-
962-646	30,-

Package order

KERN-No.	€
346-860-600	78,-
346-870-600	101,-
346-880-600	145,-
346-890-600	330,-

M1

Hook weights
brass

KERN-No.	Tol ±mg	€
347-416 1 g	1,0	12,-
347-426 2 g	1,2	13,-
347-436 5 g	1,5	14,-
347-446 10 g	2,0	15,-
347-456 20 g	2,5	16,-
347-466 50 g	3,0	18,-
347-476 100 g	5	21,-
347-486 200 g	10	29,-
347-496 500 g	25	41,-
347-516 1 kg	50	59,-
347-526 2 kg	100	98,-
347-536 5 kg	250	170,-
347-546 10 kg	500	330,-

Standard boxes
lined

KERN-No.	€
347-030-400 2,-	
347-030-400 2,-	
347-030-400 2,-	
347-050-400 2,-	
347-050-400 2,-	
347-070-400 2,-	
347-090-400 3,-	
347-090-400 3,-	
347-010-400 3,-	
347-020-400 3,-	
347-030-400 9,-	
347-040-400 9,-	
-	

DKD-
Certificate

KERN-No.	€
962-631 18,-	
962-632 18,-	
962-633 18,-	
962-634 18,-	
962-635 18,-	
962-636 18,-	
962-637 18,-	
962-638 18,-	
962-639 18,-	
962-641 18,-	
962-642 18,-	
962-643 18,-	
962-644 21,-	

Package
order

KERN-No.	€
347-4164-600 32,-	
347-4264-600 33,-	
347-4364-600 34,-	
347-4464-600 35,-	
347-4564-600 36,-	
347-4664-600 38,-	
347-4764-600 42,-	
347-4864-600 50,-	
347-4964-600 62,-	
347-5164-600 80,-	
347-5264-600 125,-	
347-5364-600 197,-	
-	

Newton weights: all single, hook and slotted weights are available with N adjustment facility M1. Additional price € 8,-

DKD certificates for N weights:

same as DKD prices for individual weights M1.

Additional price € 8,-

Conversion N : g

1cN	10cN	1N	10N	100N
1g	10g	100g	1kg	10kg



M1

Slotted weights
brass

KERN-No.	Tol ±mg	€
347-415 1 g	1,0	14,-
347-425 2 g	1,2	15,-
347-435 5 g	1,5	16,-
347-445 10 g	2,0	17,-
347-455 20 g	2,5	18,-
347-465 50 g	3,0	20,-
347-475 100 g	5	23,-
347-485 200 g	10	28,-
347-495 500 g	25	46,-
347-515 1 kg	50	73,-
347-525 2 kg	100	110,-
347-535 5 kg	250	205,-
347-545 10 kg	500	355,-

Standard boxes
lined

KERN-No.	€
374-030-400 2,-	
374-030-400 2,-	
374-030-400 2,-	
374-030-400 2,-	
374-080-400 2,-	
374-080-400 2,-	
374-080-400 2,-	
374-080-400 2,-	
374-090-400 3,-	
374-090-400 3,-	
374-110-400 3,-	
374-130-400 9,-	
374-130-400 9,-	
374-140-400 9,-	
374-140-400 9,-	

DKD-
Certificate

KERN-No.	€
962-631 18,-	
962-632 18,-	
962-633 18,-	
962-634 18,-	
962-635 18,-	
962-636 18,-	
962-637 18,-	
962-638 18,-	
962-639 18,-	
962-641 18,-	
962-642 18,-	
962-643 18,-	
962-644 21,-	

Package
order

KERN-No.	€
347-4154-600 34,-	
347-4254-600 35,-	
347-4354-600 36,-	
347-4454-600 37,-	
347-4554-600 38,-	
347-4654-600 40,-	
347-4754-600 44,-	
347-4854-600 49,-	
347-4954-600 67,-	
347-5154-600 100,-	
347-5254-600 137,-	
347-5354-600 232,-	
347-5454-600 385,-	

M1



Beam bars, brass. For fixing slotted weights, individual combinations possible

KERN-No.	Size g	Largest single weight kg	Max. total load kg	€
347-445-100	10	0,1	0,2	29,-
347-475-100	100	1	2	49,-
347-495-100	500	10	20	77,-
347-515-100	1000	10	40	115,-

DKD-
Certificate

KERN-No.	€
962-634 18,-	
962-637 18,-	
962-639 18,-	
962-641 18,-	

Package
order

KERN-No.	€
347-4450-1600 47,-	
347-4750-1600 67,-	
347-4950-1600 95,-	
347-5150-1600 133,-	

**DKD calibration certificates for weights:**

To issue a calibration certificate we require the address of the recipient.

Recalibration: KERN offers a comprehensive recalibration service, see page 59.

Recalibration time intervals for weights: we recommend 1-2 years, depending on the intensity of use and safety requirement.

The prices for recalibration are the same as the prices for first calibration, see column "DKD certificates".

Accessories for weights see page 57.

Additional products in the KERN price list:

- Further test weights in classes of accuracy E1, E2, F1, F2, M1, M2, M3
- Heavy duty weights 100 kg - 2000 kg
- Special devices, e.g. grain tester, mechanical balances, egg grading balances

... request free of charge!!!



Adjusting of measuring equipment: Precise setting of a measure value via a professional intervention into the measurement system.

Adjusting the weighing range of a balance either with the external test weight via the **adjusting program (CAL)** or with the **automatic internal adjusting** resp. **adjusting switch**. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc. **Recommended as a daily check routine.**



Capacity display: a bar-graph displays the currently selected and optionally available weighing range.

Calibration of measuring equipment: determination of the precision of a measure value without intervention into the measuring system. Example: to check a balance, you load a **→ test weight** upon it. The term "calibrating" was formerly also used for **→ adjusting**.

Calibration or verifying: you can only verify balances capable of being verified with the letter M.
See **→ verifying**.

Calibration or verification: Verification is only possible for "verifiable" balances carrying the label **M**. Verification is a compulsory legal commercial requirement. It serves as consumer protection.

DKD-Calibration (=certification) is possible for every faultless balance. DKD calibration is a private service monitored by the state for ensuring high quality requirements, e.g. in production flows or research.

Calibration certificate DKD: documentation of measured characteristics of balances or test weights and of traceability to the National Standard. Additional price. See page 59.

Control of measuring equipment: required for quality management systems according to ISO 9000ff, GLP etc. Measuring equipment (e.g. balances) and checking equipment (e.g. test weights) must be controlled (=calibrated) at certain intervals for their precision.

Data interface / -parameters: primarily RS 232C, bidirectional. For direct connection of a printer or PC to the balance. The interface parameters can be set on the balance keypad. Interface cable see page 57.



Declaration of conformity: it documents that a product meets the EG Guidelines. With electronic balances always in conjunction with the CE sign.

Density determination (previously "specific weight"): see page 15.

DKD = German Calibration Service, see page 59.

Draft shield: required for balances with readout **d** ≤ 1 mg to avoid disturbing air movements.

Dynamic weighing: **→ filter**

Filter for adaptation to the ambient conditions: vibrations are compensated due to an increase of the measurement cycles within the balance, this means an extension of the integration time.

GLP: Good Laboratory Practice, see page 57 and **→ ISO/GLP**.

Gravitational force: very important influence for precise electronic balances. Due to the varying influence balances have to be **→ adjusted** at the location of use.

IP protection class: the higher the number, the less dust and spray intrudes into the balance's casing. IP 54 is dust and water resistant, IP 67 is dust and water proof.



ISO 9000ff: quality management system in the form of a DIN-Norm for quality assurance in a factory.

ISO/GLP record keeping: Quality Assurance Systems demand the printout of weighing results (raw data) and the correct adjusting of the balance giving details of date, time and balance identification. The easiest way of obtaining this documentation is by means of a connected printer.



Linearity / precision: Greatest deviation of the weight display of a balance to the value of the respective test weight in terms of plus and minus over the whole weighing range.

Minimum load Min: lower limit of the verifiable weighing range. Is marked on the verification plate. The function of the balance is also given below the minimum load.



Net total: total weight of all components of a mixture without the weight of the tare cup.

Percentage determination (Example): reference weight prior to drying: 50 g = balance display 100 %. After drying: 40 g = balance display, 80 % absolute (dry mass) or 20 % relative (humidity).



Permissible ambient temperature: Measuring errors are possible with readings either side of the limits. With verifiable balances this is stated on the identification sign.

Piece counting of single pieces: when weighing for example 10 identical pieces, the **→ reference quantity** is 10. The balance now automatically indicates the average weight per piece. As from now each loading of identical pieces to be counted will be directly indicated as the quantity of pieces. The following applies: The higher the reference quantity, the higher the counting accuracy.



Readout d: smallest readable weight increment on a digital display.

Rear illuminated display: very contrasting display which can also be read in the dark.

Recalibration: periodic checking of the precision of measurement equipment / checking equipment (e.g. balances / weights).

Reference weight: representative piece weight with piece counting of the same pieces. Is ascertained by taking the average of several pieces. The **→ reference quantity** of pieces is the number of pieces selected to determine the reference weight. Mostly between 10 and 50 pieces.
→ Piece counting.

Reproducibility (Standard deviation): the measure of conformity in repeat weighing (e.g. balances) subject to the same conditions. Mostly 1 **d** or less. Quality feature.

Semi-micro balance: analytical balance with readout $d = 0.01$ mg.

Taring, automatic: when the tare pan is put in place the balance immediately displays zero. Saves time.

Taring is subtractive, the real weighing range is reduced by the value of the tare load. Example: Weighing range of a balance **Max** 6000 g, Tare (=container) 470 g, available weighing range 5530 g.

Test weights: classes of accuracy **E, F, M** and their general relation to the types of balances:

E2 the most accurate test weights for high resolution analytical balances of verification category **(I)**

F1 Precision weights for analytical balances of verification category **(I)**

F2 Test weights for very accurate precision balances of verification category **(II)**

M1 Precision weights for industrial and trade balances of verification category **(III)**

More closely defined rules to determine the correct test weight and example of application see page 60.

Test weight external (previously calibration weight):

serves to adjust or check the balance accuracy

→ **Adjusting the weighing range.** The external test weight can be DKD certified at any time, even afterwards, see page 59.

Test weight internal: like test weight external, but built in the balance and motor-driven.

Tolerance checks see → **Weighing with tolerance ranges.**

Totalizing: as many individual weighings as required are automatically added to form a total figure, e.g. all individual weighing of a batch.

Traceability to the National Standard: the norm ISO 9000 requires that all checking equipment (e.g. test weights) are correct in accordance with the defined tolerance. Avoids incorrect measurement.

Dual-range balance: The complete weighing range of a balance begins with readability d_1 . After leaving the fine range the readability is d_2 .

Uncertainty of measurement of a balance (=measurement accuracy): this is calculated individually for every balance according to a precisely set out test procedure and documented in the → **Calibration certificate**. It depends on various factors both internal to and external from the balance. Uncertainty of measurement increases with increasing loading of the balance.

Validity of verification period of balances: all verification categories generally 2 years, for checking balances generally 1 year, upon expiry the balance has to be re-verified.

Verifiable / non-verifiable balances: virtually they are identical in terms of measurement technology. Certain details are legally prescribed for verifiable balances, e.g. software changes, additional markings.

Verification categories of balances: **(I)** analytical balances, **(II)** precision balances, **(III)** industrial balances.

Verifying: only balances capable of being verified can be officially verified. These balances are marked with an **M**. Verifiability in business is specified by the state. It serves as consumer protection.

Verification: according to the EU directive 90 / 384 / EWG balances must be verified if they are used as follows:

- In commercial trade when the price of a commodity is determined by weighing.
- Determination of mass for making medicine in a pharmacy or in analysis carried out in medical and pharmaceutical laboratories.
- Application of laws or regulations.
- In the production of prepackaging.

Every balance is tested by the metrological service and stamped with a verification mark. Its accuracy within the framework of permissible standard tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification of a balance with adjusting program CAL:

the adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific place of location → **Gravitational force**.

For the preparation of verification it is therefore necessary to advise the place of location and postcode. See individual model details for the information as to whether verification can be carried out in the factory or at the place of location.

Verification of a balance with automatic internal

adjusting: the above restrictions in respect of the place of location do not apply, because the automatic internal adjusting works also after the verification, therefore is not sealed. In this case the verification does not depend on the place of location.

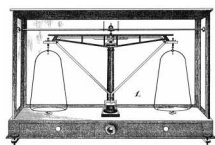
Verification value e: measure of the verification tolerance, depending on balance, mostly between 1 and 10 d .

Weighing range Max: is the working range of the balance. The balance can be loaded up to the specified upper limit.

Weighing with tolerance ranges: the lower and upper limiting values are programmed individually. Input is possible in grammes, pieces or %. With tolerance checks such as dosing, portioning or sorting the balance displays the value over or under the limits.



KERN then



1844
established
precision balances are produced



1863
A proud **Gottlieb Kern** with his workshop staff



1923
Inflation
KERN pays wages with money it printed itself



1960
Introduction of **precision balances with pan**



1973
The new **OIML weights** E2 to M3 are born



1980
The **electronic balance** ousts mechanical devices



1988
KERN introduces the **electronic pocket balance** in Germany



1997
Accredited **DKD calibration laboratory** for balances and weights



2003
Into the **future** with us

KERN today



Production of platform balances



Test location platform balances



After sales service



Production of laboratory balances



Speed of execution is our strength



KERN today - in new premises in Balingen since 2000

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