

Operating instructions Precision/ compact balances and platform scales

KERN 572/573/KB/DS/FKB/FCB

Version 5.7
12/2009
GB



572/573/KB/DS/FKB/FCB-BA-e-0957



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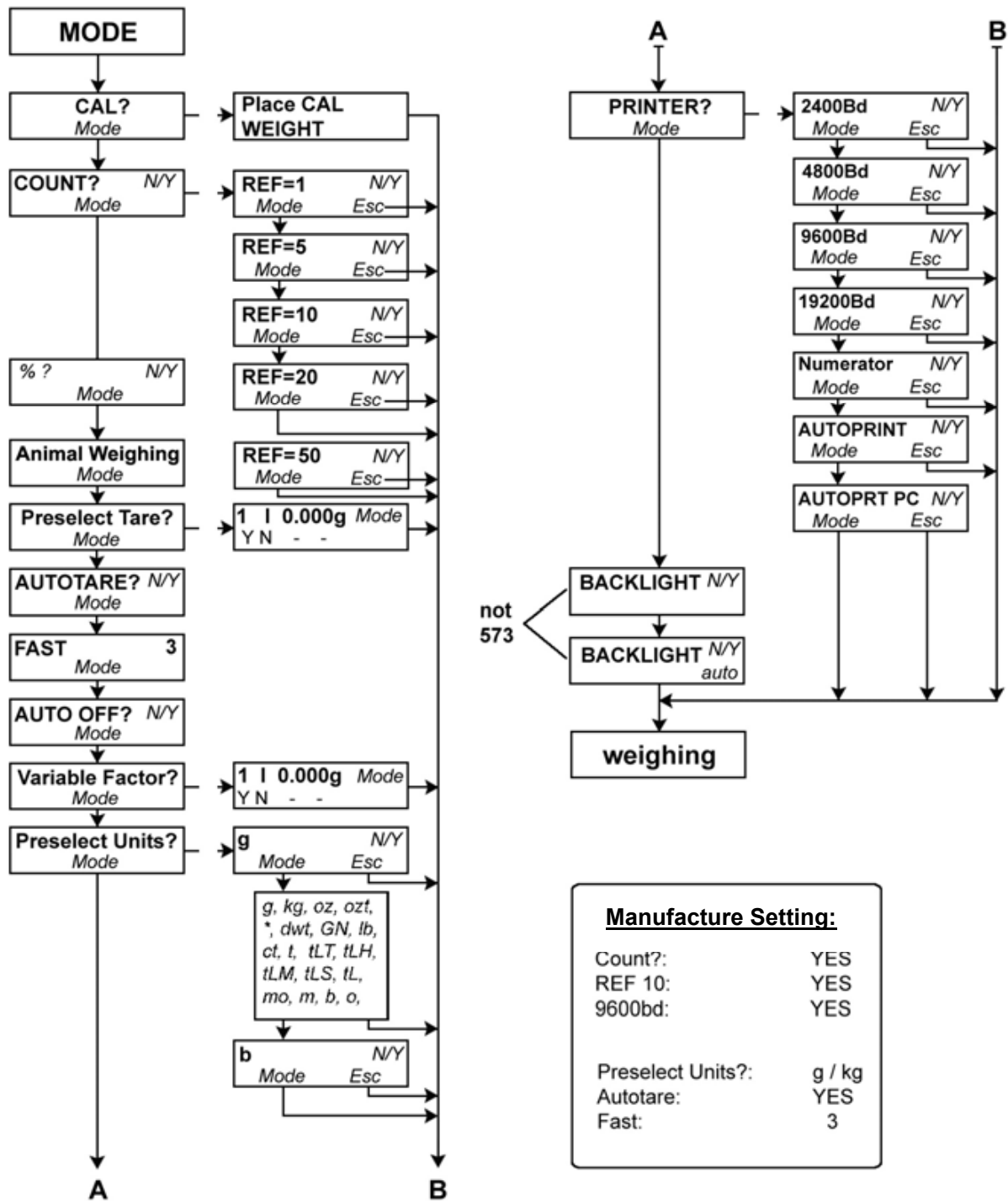
Operating instruction

Precision/compact balances and platform scales

Table of contents:

1	MODE - MENUE	3
2	Technical data	4
2.1	KERN 572.....	4
2.2	KERN 573.....	7
2.3	KERN KB	8
2.4	KERN DS.....	12
2.5	KERN FCB	17
2.6	KERN FKB	19
3	Fundamental information (general).....	22
3.1	Intended use.....	22
3.2	Inappropriate use	22
3.3	Guarantee	22
3.4	Monitoring the test substances	22
4	Fundamental safety information.....	23
4.1	Observe the information in the operating instructions	23
4.2	Staff training.....	23
5	Transport and storage	23
5.1	Acceptance check	23
5.2	Packaging.....	23
6	Unpacking, installation and commissioning	23
6.1	Place of installation, place of use.....	23
6.2	Unpacking	24
6.2.1	Installation.....	24
6.3	Mains supply	24
6.4	Battery operation FKB.....	24
6.5	Connecting peripheral equipment.....	24
6.6	Initial start-up	24
6.7	Adjustment.....	25
6.8	Adjusting (go to 7.2.6).....	25
6.8.1	Adjusting for verification (KERN 573; FKB-M; KB-NM; FCB-M; DS-M)	25
6.9	Verification	26
7	Operation	27
7.1	Display control panel	27
7.2	Operation.....	28
7.3	Display background illumination	32
7.4	Interface RS 232 C	32
7.5	RS 232 C Data output via interface RS 232 C	33
7.5.1	There are 5 methods for the data output via RS 232 C	33
7.5.2	Description of the data transfer	33
7.5.3	Numerator.....	34
7.6	Printer	34
7.7	Underfloor weighing.....	34
8	Maintenance, upkeep, disposal	35
8.1	Cleaning.....	35
8.2	Maintenance, upkeep	35
8.3	Disposal.....	35
9	Troubleshooting.....	35
10	Declaration of conformity.....	36

1 MODE - MENUE



Manufacture Setting:	
Count?:	YES
REF 10:	YES
9600bd:	YES
Preselect Units?:	g / kg
Autotare:	YES
Fast:	3

Important!

The modified settings - as well as the adjustment - must be stored when switching-off, via the ON/OFF button.

2 Technical data

2.1 KERN 572

KERN	572-30	572-31	572-32	572-33
Readability (d)	0.001 g	0.001 g	0.001 g	0.01 g
Weighing range (max)	241 g	301 g	421 g	1610 g
Taring range (subtractive)	241 g	301 g	421 g	1610 g
Reproducibility	0.001 g	0.001 g	0.001 g	0.01g
Linearity	± 0.003 g	± 0.005 g	± 0.005 g	± 0.03 g
Smallest piece weight	0.001 g	0.001 g	0.001 g	0.01 g
Adjustment points	50/100/ 200/240 g	50/100/ 200/300 g	100/200/ 300/400 g	0.5/1.0/ 1.5/1.6 kg
Recommended adjusting weight F1 (not supplied)	200 g	200 g +100 g	200 g + 200 g	1 kg + 500 g
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	180 x 310 x 90			
Vibration filter	yes			
Weighing plate stainless steel mm	Ø 106	Ø 106	Ø 106	Ø 150
Units	see menu			
Weight kg (net)	2.3	2.3	2.3	2.3
Data interface	yes (RS232)			

KERN	572-35	572-37	572-39	572-43
Readability (d)	0.01 g	0.01 g	0.01 g	0.1 g
Weighing range (max)	2410 g	3010 g	4210 g	10100 g
Taring range (subtractive)	2410 g	3010 g	4210 g	10100 g
Reproducibility	0.01 g	0.01 g	0.01 g	0.1 g
Linearity	± 0.03 g	± 0.05 g	± 0.05 g	± 0.3 g
Smallest piece weight	0.01 g	0.01 g	0.01 g	0.1 g
Adjustment points	0.5/1.0/ 2.0/2.4 kg	1.0/1.5/ 2.0/3.0 kg	1.0/2.0/ 3.0/4.0 kg	2/5/10 kg
Recommended adjusting weight F1 (not supplied)	2 kg	2 kg + 1 kg	2 kg + 2 kg	10 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	180 x 310 x 90			
Vibration filter	yes			
Weighing plate stainless steel mm	Ø 150	Ø 150	Ø 150	160 x 200
Units	see menu			
Weight kg (net)	2.3	2.3	2.3	2.7
Data interface	yes (RS232)			

KERN	572-45	572-49	572-55	572-57
Readability (d)	0.05 g	0.1 g	0.05 g	0.1 g
Weighing range (max)	12100 g	16100 g	20100 g	24100 g
Taring range (subtractive)	12100 g	16100 g	20100 g	24100 g
Reproducibility	0.05 g	0.1 g	0.05 g	0.1 g
Linearity	± 0.15 g	± 0.3 g	± 0.25 g	± 0.3 g
Smallest piece weight	0.05 g	0.1 g	0.05 g	0.1 g
Adjustment points	2/5/10/12 kg	5/10/15/16 kg	5/10/15/20 kg	5/10/15/20/24 kg
Recommended adjusting weight F1 (not supplied)	10 kg	10 kg + 5 kg	20 kg	20 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	180 x 310 x 90			
Vibration filter	yes			
Weighing plate stainless steel mm	160 x 200	160 x 200	160 x 200	160 x 200
Units	see menu			
Weight kg (net)	2.7	2.7	2.7	2.7
Data interface	yes (RS232)			

2.2 KERN 573

KERN	573-34NM	573-36NM	573-46NM	573-56NM
Accuracy class	II	II	II	II
Readability (d)	0.01 g	0.01 g	0.1 g	0.1 g
Verification value (e)	0.1 g	0.1 g	1 g	1 g
Weighing range (max)	650 g	2000 g	6500 g	20000 g
Minimum load (Min)	0.5 g	0.5 g	5 g	5 g
Taring range (subtractive)	650 g	2 000 g	6500 g	20000 g
Reproducibility	0.01 g	0.01 g	0.1 g	0.1 g
Linearity	± 0.03 g	± 0.03 g	± 0.3 g	± 0.3 g
Smallest piece weight	0.01 g	0.01 g	0.1 g	0.1 g
Adjustment points	200g/500g/600g	500g/1000g/ 2 000g	2/5/6 kg	5/10/20 kg
Recommended adjusting weight F1 (not supplied)	600 g / F1	2 kg / F1	5 kg / F2	20 kg / F1
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 30 °C			
Housing (B x D x H) mm	180 x 310 x 90			
Vibration filter	yes			
Weighing plate stainless steel mm	Ø 150	Ø 150	160 x 200	160 x 200
Units	g, kg	g, kg	g, kg	g, kg
Weight kg (net)	2.3	2.3	2.7	2.7
Data interface	yes (RS232)			

2.3 KERN KB

KERN	KB 120-3N	KB 200-3N	KB 240-3N	KB 360-3N
Readability (d)	0.001 g	0.001 g	0.001 g	0.001 g
Weighing range (max)	121 g	201 g	241 g	361 g
Taring range (subtractive)	121 g	201 g	241 g	361 g
Reproducibility	0.001 g	0.001 g	0.001 g	0.001 g
Linearity	± 0.003 g	± 0.003 g	± 0.003 g	± 0.005 g
Smallest piece weight	0.001 g	0.001 g	0.001 g	0.001 g
Adjustment points	20/50/100/120 g	50/100/150/200 g	100/150/ 200/240 g	100/200/ 300/360 g
Recommended adjusting weight F1 (not supplied)	100 g	200 g	200 g	200 g + 100 g
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	167 x 250 x 85			
Vibration filter	yes			
Weighing plate stainless steel mm	Ø 81	Ø 81	Ø 81	Ø 81
Units	see menu			
Weight kg (net)	1	1	1	1
Data interface	yes (RS232)			

KERN	KB 1200-2N	KB 2000-2N	KB 2400-2N	KB 3600-2N
Readability (d)	0.01 g	0.01 g	0.01 g	0.01 g
Weighing range (max)	1 210 g	2 010 g	2 410 g	3 610 g
Taring range (subtractive)	1 210 g	2 010 g	2 410 g	3 610 g
Reproducibility	0.01 g	0.01 g	0.01 g	0.01g
Linearity	± 0.03 g	± 0.03 g	± 0.03 g	± 0.05 g
Smallest piece weight	0.01 g	0.01 g	0.01 g	0.01 g
Adjustment points	0.2/0.5/1.0/1.2 kg	0.5/1.0/1.5/2.0 kg	1.0/1.5/2.0/2.4 kg	1.0/2.0/3.0/3.6 kg
Recommended adjusting weight F1 (not supplied)	1 000 g	2 000 g	2 000 g	2 kg + 1 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	167 x 250 x 85			
Vibration filter	yes			
Weighing plate stainless steel mm	130 x 130	130 x 130	130 x 130	130 x 130
Units	see menu			
Weight kg (net)	1.5	1.5	1.5	1.5
Data interface	yes (RS232)			

KERN	KB 10000-1N	KB 10k0.05N
<i>Accuracy class</i>		
<i>Readability (d)</i>	0.1 g	0.05 g
<i>Weighing range (max)</i>	10 100 g	10 100 g
<i>Taring range (subtractive)</i>	10 100 g	10 100 g
<i>Reproducibility</i>	0.1 g	0.05 g
<i>Linearity</i>	0.3 g	0.15 g
<i>Smallest piece weight</i>	0.1 g	0.05 g
<i>Adjustment points</i>	2/5/10 kg	2/5/10 kg
<i>Recommended adjusting weight F1 (not supplied)</i>	10 kg	10 kg
<i>Stabilization time (typical)</i>	3 sec.	3 sec.
<i>Permitted environmental temperature</i>	+10 °C ... + 40 °C	+10 °C ... + 40 °C
<i>Housing (B x D x H) mm</i>	167 x 250 x 85	167 x 250 x 85
<i>Weighing plate stainless steel mm</i>	150 x 170	150 x 170
<i>Units</i>	see menu	see menu
<i>Vibration filter</i>	yes	yes
<i>Weight kg (net)</i>	1.7	1.7
<i>Data interface</i>	yes (RS232)	yes (RS232)

KERN	KB 650-2NM	KB 6500-1NM	KB 2000-2NM	KB 10000-1NM
Accuracy class	II	II	II	II
Readability (d)	0.01 g	0.1 g	0.01 g	0.1 g
Verification value (e)	0.1 g	1 g	0.1 g	1 g
Weighing range (max)	650 g	6 500 g	2 000 g	10 000 g
Minimum load (Min)	0.5 g	5 g	0.5 g	5 g
Taring range (subtractive)	650 g	6 500 g	2 000 g	10 000 g
Reproducibility	0.01 g	0.1 g	0.01 g	0.1 g
Linearity	± 0.03 g	± 0.3 g	± 0.03 g	± 0.3 g
Smallest piece weight	0.01 g	0.1 g	0.01 g	0.1 g
Adjustment points	200/500/600 g	2/5/6 kg	0.5/1.0/1.5/2.0 kg	2/5/10 kg
Recommended adjusting weight F1 (not supplied)	600 g	6.0 kg	2 000 g	10 kg
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 30 °C			
Housing (B x D x H) mm	167 x 250 x 85			
Vibration filter	yes			
Weighing plate stainless steel mm	130 x 130	150 x 170	130 x 130	150 x 170
Units	g, kg, ct			
Weight kg (net)	1.5	1.7	1.5	1.7
Data interface	yes (RS232)			

2.4 KERN DS

KERN	DS 3K0.01S	DS 5K0.05S	DS 8K0.05	DS 10K0.1S
Readability (d)	0.01 g	0.05 g	0.05 g	0,1 g
Weighing range (max)	3 100 g	5 100 g	8 100 g	10.100 g
Taring range (subtractive)	3 100 g	5 100 g	8 100 g	10.100 g
Reproducibility	0.02 g	0.05 g	0.05 g	0.1 g
Linearity	± 0.05 g	± 0.15 g	± 0.15 g	±0.3 g
Smallest piece weight	0.01 g	0.05 g	0.05 g	0.1 g
Adjustment points	1/2/3 kg	2/5/10 kg	2/4/5/7/8 kg	2/5/10 kg
Recommended adjusting weight F1 (not supplied)	3 kg	10 kg	5 kg + 2 kg	10 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	228 x 228 x 70	228 x 228 x 70	315 x 305 x 70	228 x 228 x 70
Vibration filter				
Weighing plate stainless steel mm	228 x 228	228 x 228	315 x 305	228 x 228
Units	see menu	see menu	see menu	see menu
Weight kg (net)	5.5	5.5	7.5	5,5
Data interface	yes (RS232)			

KERN	DS 16K0.1	DS 20K0.1	DS 30K0.1
Accuracy class			
Readability (d)	0.1 g	0.1 g	0.1 g
Verification value (e)			
Weighing range (max)	16 100 g	20 100 g	30 100 g
Minimum load (Min)			
Taring range (subtractive)	16 100 g	20 100 g	30 100 g
Reproducibility	0.1 g	0.1 g	0.1 g
Linearity	± 0.3 g	± 0.3 g	± 0.3 g
Smallest piece weight	0.1 g	0.1 g	0.1 g
Adjustment points	5/10/15/16 kg	5/10/15/20 kg	10/15/20/30 kg
Recommended adjusting weight F1 (not supplied)	10 kg + 5 kg	20kg	20 kg + 10 kg
Humidity of air	max. 80% rel. (non-condensing)		
Stabilization time (typical)	3 sec.		
Permitted environmental temperature	+10 °C ... + 40 °C		
Housing (B x D x H) mm	315 x 305 x 70		
Vibration filter	yes		
Weighing plate stainless steel mm	315 x 305	315 x 305	315 x 305
Units	see menu	see menu	see menu
Weight kg (net)	7.5	7.5	7.5
Data interface	yes (RS232)		

KERN	DS 36K0.2	DS 30K0.1L	DS 36K0.2L	DS 60K0,2
Accuracy class				
Readability (d)	0.2 g	0.1 g	0.2 g	0.2 g
Verification value (e)				
Weighing range (max)	36 100 g	30 100 g	36 100 g	60 100 g
Minimum load (Min)				
Taring range (subtractive)	36 100 g	30 100 g	36 100 g	60 100 g
Reproducibility	0.2 g	0.1 g	0.2 g	0.2g
Linearity	± 0.6 g	± 0.3 g	± 0.6 g	± 0.6 g
Smallest piece weight	0.2 g	0.1 g	0.2 g	0.2 g
Adjustment points	10/15/20/ 30/36 kg	10/15/20/ 30 kg	10/15/20/ 30/36 kg	20/30/50/60 kg
Recommended adjusting weight F1 (not supplied)	20 kg + 10 kg	20 kg + 10 kg	20 kg + 10 kg	50 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	315 x 305 x 70	450 x 350 x 115		
Vibration filter	yes			
Weighing plate stainless steel mm	315 x 305	450 x 350		
Units	see menu	see menu	see menu	see menu
Weight kg (net)	7.5	9.5	9.5	9.5
Data interface	yes (RS232)			

KERN	DS 65K0.5	DS 100K0.5	DS 150K1
<i>Readability (d)</i>	0,5 g	0,5 g	1 g
<i>Weighing range (max)</i>	65 100 g	101 000 g	151 000 g
<i>Taring range (subtractive)</i>	65 100 g	101 000 g	151 000 g
<i>Reproducibility</i>	0,5 g	0,5 g	1 g
<i>Linearity</i>	± 1,5 g	± 1,5 g	± 3 g
<i>Smallest piece weight</i>	0,5 g	0,5 g	1 g
Adjustment points			
<i>Adjustment points</i>	20/30/50/60 kg	20/50/100 kg	50/100/150 kg
<i>Recommended adjusting weight F1 (not supplied)</i>	50 kg	50 kg + 50 kg	3 x 50 kg 3 x 50 kg
<i>Humidity of air</i>	max. 80% rel. (non-condensing)		
<i>Stabilization time (typical)</i>	3 sec.		
<i>Permitted environmental temperature</i>	+10 °C ... + 40 °C		
<i>Housing (B x D x H) mm</i>	450 x 350 x 115		
<i>Vibration filter</i>	yes		
<i>Weighing plate stainless steel mm</i>	450 x 350		
<i>Units</i>	see menu	see menu	see menu
<i>Weight kg (net)</i>	9.5		
<i>Data interface</i>	yes (RS232)		

KERN	DS 15K0.1M	DS 65K1M	DS 150K1M	DS 50K1TM	DS 100K2TM
Accuracy class	II	II	II	III	III
Readability (d)	0.1 g	1 g	1 g	1 g / 2 g / 5 g	2 g / 5 g / 10 g
Verification value (e)	1 g	10 g	10 g	1 g / 2 g / 5 g	2 g / 5 g / 10 g
Weighing range (max)	15 000 g	65 000 g	150 000 g	10 kg / 20 kg / 50 kg	20 kg / 50 kg / 100 kg
Minimum load (Min)	5 g	50 g	50g	50 g	100 g
Taring range (subtractive)	15 000 g	65 000 g	150 000 g	50 000 g	100 000 g
Reproducibility	0.1 g	1 g	1 g	1 g	1 g
Linearity	± 0.3 g	± 2 g	± 3 g	± 2 g	
Smallest piece weight	0.1 g	1 g	1 g	1 g	
Adjustment points	5/10/15/kg	20/30/50/ 60 kg	50/100/ 150 kg	20/40/50 kg	50/100g
Recommended adjusting weight F1 (not supplied)	10 kg + 5 kg	50 kg	3 x 50 kg	50 kg	2 x 50 kg
Humidity of air	max. 80% rel. (non-condensing)				
Stabilization time (typical)	3 sec.				
Permitted environmental temperature	+10 °C ... + 30 °C			+10 °C ... + 40 °C	
Housing (B x D x H) mm	315 x 305 x 70	450 x 350 x 115			
Vibration filter	yes				
Weighing plate stainless steel mm	315 x 305	450 x 350			
Units	see menu	see menu	see menu	see menu	see menu
Weight kg (net)	7.5	9.5	9.5	9.5	9.5
Data interface	yes (RS232)				

2.5 KERN FCB

KERN	FCB 6K0.02B	FCB 12K0.05B	FCB 12K0.1B	FCB 24K0.1B	FCB 24K0.2B
Readability (d)	0.02 g	0.05 g	0.1 g	0.1 g	0.2 g
Weighing range (max)	6 100 g	12 100 g	12 100 g	24 100 g	24 100 g
Taring range (subtrac- tive)	6 100 g	12 100 g	12 100 g	24 100 g	24 100 g
Reproducibility	0.02 g	0.05 g	0.1 g	0.1 g	0.2 g
Linearity ±	0.06 g	0.15 g	0.3 g	0.3 g	0.6 g
Smallest piece weight	0.02 g	0.05 g	0.1 g	0.1 g	0.2 g
Adjustment points	2/5/6 kg	2/5/10/12 kg	2/5/10/12 kg	5/10/15/ 20/24 kg	5/10/15/ 20/24 kg
Recom. adjustment weight F1 (not added)	5 kg	10 kg	10 kg	20 kg	20 kg
Humidity of air	max. 80% rel. (non-condensing)				
Stabilization time (typi- cal)	3 sec.				
Permitted environ- mental temperature	+ 10 °C ... + 40 °C				
Vibration filter	yes				
Housing (B x D x H) mm	270 x 345 x 106	270 x 345 x 106	270 x 345 x 106	270 x 345 x 106	270 x 345 x 106
Weighing plate, stainless steel	253x228	253x228	253x228	253x228	253x228
Units	see menu				
Vibration filter	yes				
Weight kg (net)	3.3	3.3	3.3	3.3	3.3
Data interface	yes (RS232)				

KERN	FCB 8K0.1BM	FCB 15K0.1BM	FCB 15K1BDM
Accuracy class	II	II	III
Readability (d)	0.1 g	0.1 g	1 g
Verification value (e)	1 g	1 g	1 g / 2 g
Weighing range (max)	8 000 g	15 000 g	7.5 kg / 15 kg
Minimum load (Min)	5 g	5 g	50 g
Taring range (subtractive)	8 000 g	15 000 g	50 000 g
Reproducibility	0.1 g	0.1 g	1g
Linearity	± 0.2 g	± 0.3 g	±3 g
Smallest piece weight	0.1 g	0.1 g	1 g
Adjustment points	5/8 kg	5/10/15 kg	5/10/15 kg
Recommended adjusting weight F1 (not supplied)	5 kg + 2 kg	15 kg	15 kg
Humidity of air	max. 80% rel. (non-condensing)		
Stabilization time (typical)	3 sec.		
Permitted environmental temperature	+10 °C ... + 30 °C		+10 °C ... + 40 °C
Housing (B x D x H) mm	270 x 345 x 106		
Vibration filter	yes		
Weighing plate stainless steel mm	253 x 228		
Units	g, kg		
Weight kg (net)	3.3		
Data interface	yes (RS232)		

2.6 KERN FKB

KERN	FKB 6K0.02	FKB 8K0.05	FKB 16K0.05	FKB 16K0.1
<i>Readability (d)</i>	0.02 g	0.05 g	0.05 g	0.1 g
<i>Weighing range (max)</i>	6 100 g	8 100 g	16 100 g	16 100 g
<i>Taring range (subtractive)</i>	6 100 g	8 100 g	16 100 g	16 100 g
<i>Reproducibility</i>	0.02 g	0.05 g	0.05 g	0.1 g
<i>Linearity</i>	± 0.06 g	± 0.15 g	± 0.25 g	± 0.3 g
<i>Smallest piece weight</i>	0.02 g	0.05 g	0.05 g	0.1 g
<i>Adjustment points</i>	2/4/5/6 kg	2/4/5/7/8 kg	5/10/15/16 kg	5/10/15/16 kg
<i>Recommended adjusting weight F1 (not supplied)</i>	5 kg	5 kg + 2 kg	10 kg + 5 kg	10 kg + 5 kg
<i>Humidity of air</i>	max. 80% rel. (non-condensing)			
<i>Stabilization time (typical)</i>	3 sec.			
<i>Permitted environmental temperature</i>	+10 °C ... + 40 °C			
<i>Housing (B x D x H) mm</i>	350 x 390 x 120			
<i>Vibration filter</i>	yes			
<i>Weighing plate stainless steel mm</i>	340 x 240	340 x 240	340 x 240	340 x 240
<i>Units</i>	see menu	see menu	see menu	see menu
<i>Weight kg (net)</i>	6.5	6.5	6.5	6.5
<i>Data interface</i>	yes (RS232)			

KERN	FKB 36K0.1	FKB 36K0.2	FKB 65K0.2	FKB 65K0.5
Readability (d)	0.1 g	0.2 g	0.2 g	0.5 g
Verification value (e)				
Weighing range (max)	36 100 g	36 100 g	65 100 g	65 100 g
Minimum load (Min)				
Taring range (subtractive)	36 100 g	36 100 g	65 100 g	65 100 g
Reproducibility	0.1 g	0.2 g	0.2 g	0. g
Linearity	± 0.5 g	± 0.6 g	± 1.0 g	± 1.5 g
Smallest piece weight	0.1 g	0.2 g	0.2 g	0.5 g
Adjustment points	10/20/30/36 kg	10/20/30/36 kg	20/30/50/60 kg	20/30/50/60 kg
Recommended adjusting weight F1 (not supplied)	20 kg + 10 kg	20 kg + 10 kg	50kg	50kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 40 °C			
Housing (B x D x H) mm	350 x 390 x 120			
Vibration filter	yes			
Weighing plate stainless steel mm	340 x 240	340 x 240	340 x 240	340 x 240
Units	see menu	see menu	see menu	see menu
Weight kg (net)	6.5	6.5	6.5	6.5
Data interface	yes (RS232)			

KERN	FKB 8K0.1M	FKB 15K0.1M	FKB 65K1M	FKB 50K1TM
Accuracy class	II	II	II	III
Readability (d)	0.1 g	0.1 g	1 g	1 g/2 g/5 g
Verification value (e)	1.0 g	1.0 g	10 g	1 g/2 g/5 g
Weighing range (max)	8 000 g	15 000 g	65 000 g	10kg/20kg/50kg
Minimum load (Min)	5.0 g	5.0 g	50 g	20, 40, 100 g
Taring range (subtractive)	8 000 g	15 000 g	65 000 g	50 000 g
Reproducibility	0.1 g	0.1 g	1 g	1 g
Linearity	± 0.3 g	± 0.3 g	± 3 g	± 3 g
Smallest piece weight	0.1 g	0.1 g	1 g	1 g
Adjustment points	2/5/7/8 kg	5/10/15/16 kg	20/30/50/60 kg	20/30/50 kg
Recommended adjusting weight F1 (not supplied)	5 kg + 2 kg	10 kg + 5 kg	50 kg	50 kg
Humidity of air	max. 80% rel. (non-condensing)			
Stabilization time (typical)	3 sec.			
Permitted environmental temperature	+10 °C ... + 30 °C	+10 °C ... + 30 °C	+10 °C ... + 30 °C	+10 °C ... + 40 °C
Housing (B x D x H) mm	350 x 390 x 120			
Vibration filter	yes			
Weighing plate stainless steel mm	340 x 240	340 x 240	340 x 240	340 x 240
Units	see menu	see menu	see menu	see menu
Weight kg (net)	6,5	6.5	6.5	6.5
Data interface	yes (RS232)			

3 Fundamental information (general)

It is essential to read through and observe the complete operating instructions before installing and commissioning.

3.1 Intended use

The balance you have acquired serves to determine the weighing value of the material to be weighed. It is intended to be used as a "non-automatic" balance, i.e. the material to be weighed is manually and carefully placed in the centre of the weighing plate. The weighing value can be read off after a stable weighing value has been obtained.

3.2 Inappropriate use

Do not use the balance for dynamic weighing. In the event that small quantities are removed or added to the material to be weighed, incorrect weighing results can be displayed due to the "stability compensation" in the balance. (Example: Slowly draining fluids from a container on the balance.)

Do not leave a permanent load on the weighing plate. This can damage the measuring equipment.

Be sure to avoid impact shock and overloading the balance in excess of the prescribed maximum load rating (max.), minus any possible tare weight that is already present. This could cause damage to the balance.

Never operate the balance in hazardous locations. The series design is not explosion-proof.

Structural alterations may not be made to the balance. This can lead to incorrect weighing results, faults concerning safety regulations as well as to destruction of the balance.

The balance may only be used in compliance with the described guidelines. Varying areas of application/planned use must be approved by KERN in writing.

3.3 Guarantee

The guarantee is not valid following

- non-observation of our guidelines in the operating instructions
- use outside the described applications
- alteration to or opening of the device
- mechanical damage and damage caused by media, liquids
- natural wear and tear
- inappropriate erection or electric installation
- overloading of the measuring equipment

3.4 Monitoring the test substances

The metrology features of the balance and any possible available adjusting weight must be checked at regular intervals within the scope of quality assurance. For this purpose, the answerable user must define a suitable interval as well as the nature and scope of this check. Information is available on KERN's home page (www.kern-sohn.com) with regard to the monitoring of balance test substances and the test weights required for this. Test weights and balances can be adjusted quickly and at a reasonable price in KERN's accredited DKD calibration laboratory (return to national normal).

4 Fundamental safety information

4.1 Observe the information in the operating instructions

Please read the operating instructions carefully before erecting and commissioning, even if you already have experience with KERN balances.

4.2 Staff training

The device may only be operated and looked after by trained members of staff.

5 Transport and storage

5.1 Acceptance check

Please check the packaging immediately upon delivery and the device during unpacking for any visible signs of external damage.

In the case of visible damages please obtain a signature from the bearer to serve as confirmation of damage. Do not make alterations to the goods and packaging, do not remove any consignment parts. Report the damage to the parcel service immediately in writing (within 24 hours).

5.2 Packaging

Please retain all parts of the original packaging in case it should be necessary to return items at any time. Only the original packaging should be used for return consignments.

Before despatch, disconnect all attached cables and loose/movable parts, remove weighing plate.

Apply any intended transport security devices. Secure all parts, e.g. glass windshield, weighing plate, power unit etc., to prevent slipping and damage.

6 Unpacking, installation and commissioning

6.1 Place of installation, place of use

The balance is constructed in such a way that reliable weighing results can be achieved under normal application conditions.

By selecting the correct location for your balance, you will be able to work quickly and precisely.

Therefore please observe the following at the place of installation:

- Place the balance on a firm, level surface;
- Avoid extreme heat as well as temperature fluctuation caused by installing next to a radiator or in the direct sunlight;
- Protect the balance against direct draughts due to open windows and doors;
- Avoid jarring during weighing;
- Protect the balance against high humidity, vapours and dust;
- Do not expose the device to extreme dampness for longer periods of time. Inadmissible bedewing (condensation of air moisture on the device) can occur if a cold device is taken into a significantly warmer environment. In this case, please acclimatise the device for approx. 2 hours at room temperature after it has been disconnected from the mains.
- Avoid static charging of the material to be weighed, weighing container and windshield.

Major display deviations (incorrect weighing results) are possible if electromagnetic fields occur as well as due to static charging and instable power supply. It is then necessary to change the location.

6.2 Unpacking

Carefully remove the balance from its packaging, remove the plastic wrapping and position the balance in its intended working location.

6.2.1 Installation

Install the balance in such a fashion that the weighing plate is absolutely horizontally.

6.3 Mains supply

Electric power supply is by means of the external mains supply circuit. The printed voltage level must comply with the local voltage.

Only use original KERN mains supply circuits. The use of other makes is subject to approval by Kern.

6.4 Battery operation FKB



- ⇒ To insert the batteries (6 x 1.5 V) remove the battery compartment cover. Remove it with the help of a coin.
- ⇒ In the each battery tube insert three batteries in the same polarity sense.
- ⇒ Screw down again the battery cover.

To save the battery, the background illumination can be switched off (see chap. 7.3).

Moreover the AUTO-OFF function can be activated (see chap. 7.2.10).

If the battery voltage drops below a critical value for operational safety, this will be indicated in the display with the "BATT LOW" information.

6.5 Connecting peripheral equipment

The balance must be disconnected from the mains before connecting or disconnecting additional equipment (printer, PC) to or from the data interface.

Only use KERN accessories and peripheral equipment with your balance. These have been ideally coordinated to your balance.

6.6 Initial start-up

A warm-up time of 2 hours stabilises the measured values after switching on.

The accuracy of the balance depends on the local acceleration of the fall.

Please be sure to observe the information in the chapter on adjusting.

6.7 Adjustment

As the acceleration value due to gravity is not the same at every location on earth, each balance must be coordinated – in compliance with the underlying physical weighing principle - to the existing acceleration due to gravity at its place of location (only if the balance has not already been adjusted to the location in the factory). This adjustment process must be carried out during the initial start-up, after change in location and variation of surrounding temperature. It is also recommendable to adjust the balance periodically during weighing operation in order to obtain exact measured values.

6.8 Adjusting (go to 7.2.6)

Using a precision weight, the accuracy of the balance can be checked at any time and adjusted.

Warning:

With verified balances, this precision adjustment is not possible

Adjustment procedure:

Check that the surrounding conditions are stable.

A short warm-up time of about 15 minutes is recommended for stabilisation.

6.8.1 Adjusting for verification (KERN 573; FKB-M; KB-NM; FCB-M; DS-M)

General Information:

Prior to the procedure of verification the balance has to be adjusted.

Remark: The adjusting is only possible when not being blocked by the adjusting switch.

The switch for this step is located at the bottom of the housing between the two turning feet.

At the model FKB the cover plate from the housing bottom must be removed.

Switch to the right	Adjusting function is released.
	This setting has to be selected before starting the adjusting.
	Executing the adjusting according to chapter 7.2 "Operation".
	After the adjusting has been completed successfully it is necessary to turn the adjusting switch to the left for blocking.
Switch to the left	Adjusting function is blocked.
	After the adjusting has been completed successfully the adjusting has to be blocked by switching to the left.
	The balance is now prepared for the procedure of verification.
	After the verification the adjusting switch has to be secured by a verification mark against access.

6.9 Verification

General:

According to the EU guideline 90/384/EEC balances must be verified officially if they are to be used as follows (legally regulated area):

- a) For commercial transactions if the price of goods is determined by weighing
- b) For the production of medicines in pharmacies as well as for analyses in the medical and pharmaceutical laboratory
- c) For official purposes
- d) For the production of finished packages

In case of doubt, please contact your local office of weights and measures.

Verification information

An EU qualification approval is available for those balances marked as appropriate for verification in the technical data. In the event that the balance is applied in an area subject to verification as described above, it must be officially verified and re-verified at regular intervals.

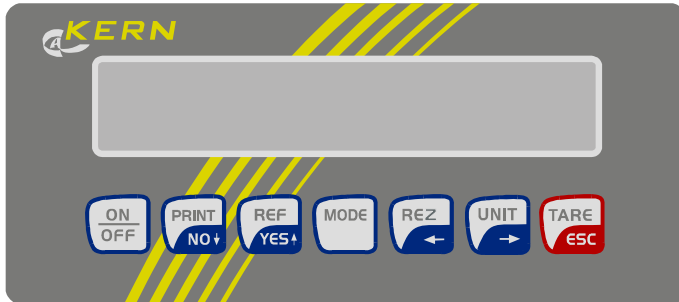
Re-verification of a balance is carried out in compliance with the respective legal provisions of the states.

The term of verification validity for balances in Germany, for example, is normally 2 years.








The legal provisions of the country of use are to be observed.

7 Operation

7.1 Display control panel



Keyboard

-  ON / OFF
-  PRINT
NO+ Print weighing result
in MODE: No / descending
-  REF
YES+ **in % and counting mode:**
Form reference
in MODE: Yes / ascending
-  MODE MODE configuration
(see mode structure diagram page 2)
-  REZ
← Formula weighing
*in MODE: to left
Change g-pieces*
-  UNIT
→ Unit changeover
in MODE: to right
-  TARE
ESC Tare
in MODE: back in weighing operation

Display-Symbol

Meaning

==OVERLOAD==	Overload: Weighing range has been exceeded
=====	Underload: Weighing range has been fallen short of
<< .	In counting and % mode: part too light
□ .	Automatic tare active / In verification operation zero display
PTA .	Preselect tare Tare pre-selection active
D .	Difference in % during percentage weighing
Net .	Net weight of the components during formula preparation
SUM .	Gross weight of several components during formula preparation
→ .	Balance is in counting mode and currently displaying the weight value of the counting amount
.	For multirange balance in verification operation indication of range

7.2 Operation

7.2.1 WEIGHING with TARE

During weighing in a certain weight amount of a product is to be filled into a weighing container without the tare weight of the container being weighed. The weighing container is excluded from consideration by using TARE and thus only the measured value of the product is indicated. The maximum weighing range is reduced by the value of the tare weighing container – tare is therefore classed as being subtractive. Wait until the g or kg unit symbol appears on the display. The weighing result is now stable.

7.2.2 COUNT - Selection reference piece

In order to be able to count a larger quantity of parts it is necessary to determine the average weight of each part using a small quantity (**reference piece number**).

The greater the reference piece number, the greater the counting accuracy.

In the case of small or very varied parts, a particularly high reference piece number must be selected.

COUNT

Commence by applying the number of parts of the determined reference piece number.

Using the automatic reference optimization (**OPT**) the counting accuracy is automatically increased when applying up to 100 items.

Now apply the quantity to be counted.

7.2.3 PERCENT %

When using **percentage weighing** it is possible to remove partial amounts from the weighing container. Instead of the manual withdrawal there can also, for example, the evaporated amount of moisture during a drying sequence be displayed as a percentage.

To begin with the percentage of the removed parts is displayed.

The remaining amount in the container is shown as a percentage by operating the REZ key.

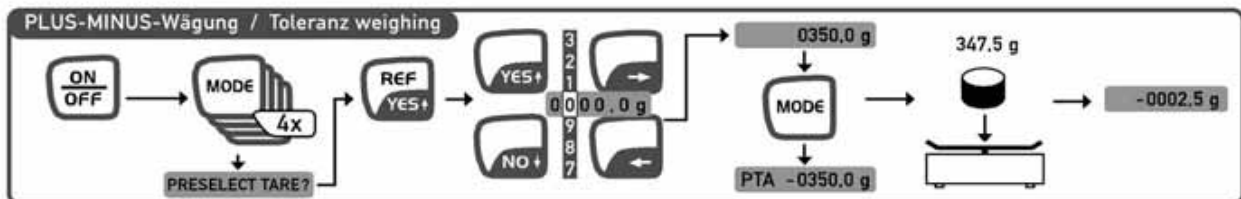
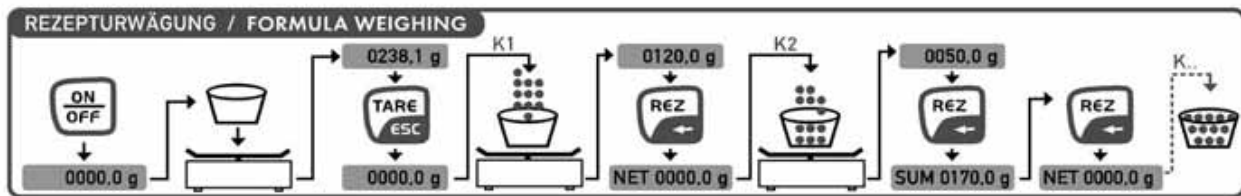
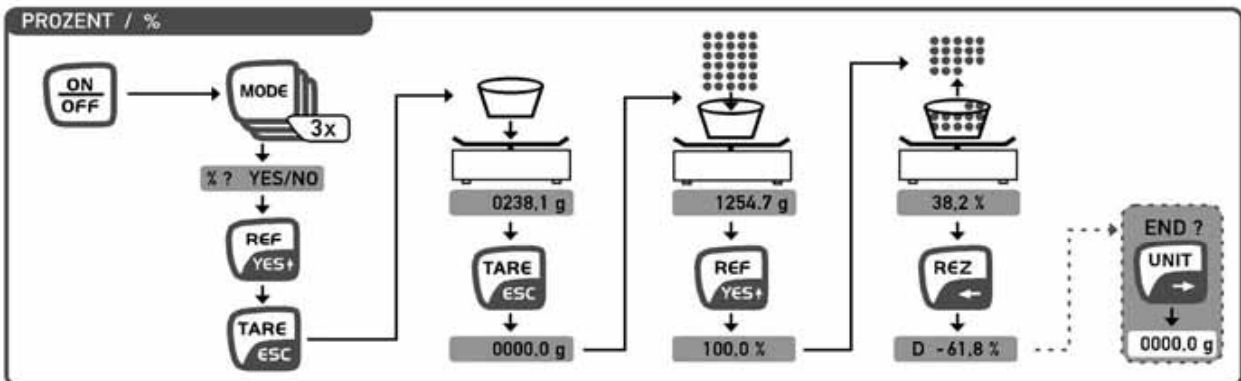
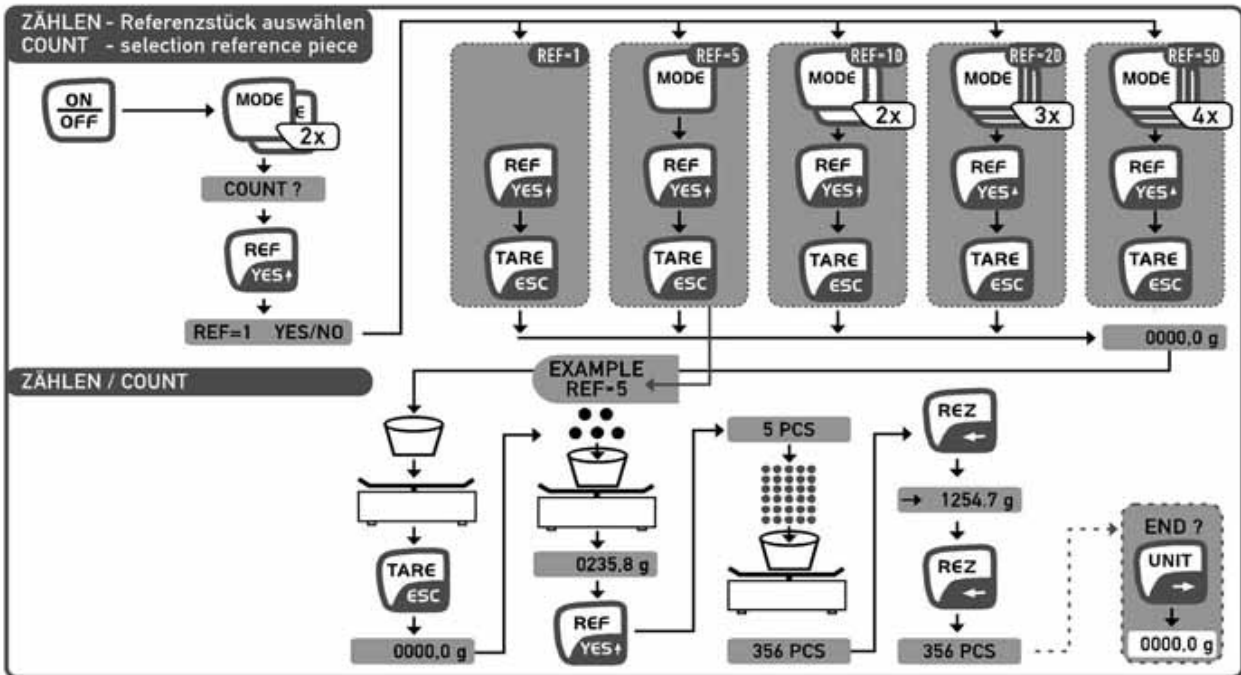
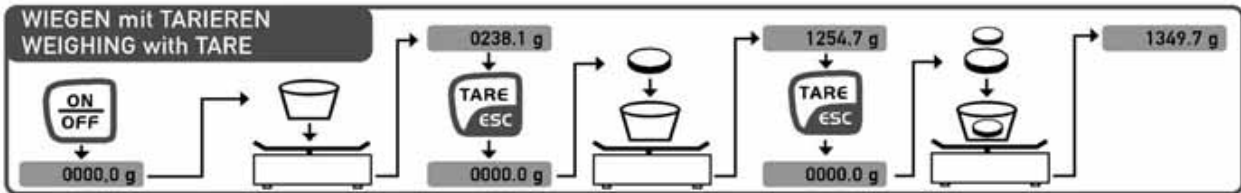
7.2.4 FORMULA WEIGHING

The **formula weighing** function makes it possible to weigh in several components (K1, K2, ...,Kn) in succession and subsequently determine the total weight of the components.

Return to weighing mode by pressing the ESC key.

7.2.5 TOLERANCE WEIGHING

When using **tolerance weighing** the parts to be checked are compared with a target value and the divergence displayed as a plus or minus value when compared to the target value.



7.2.6 ADJUST

The balance must be **adjusted** at its place of installation before initial use and at regular intervals.

Please observe the warm-up time referred to in the chapter on "Commissioning".
It is essential to avoid jarring and disturbances during the adjusting procedure.

7.2.7 PRESELECT TARE

The known tare value of a weighing container can be "deducted" by entering its weight as **preselect tare**.
In this way only the net weight of the goods to be weighed is displayed during subsequent weighings.
PTA will be seen on the display. Manual tare may not be carried out using the TARE key.

7.2.8 AUTO TARE active

AUTO TARE inactive

Auto tare activation serves to stabilize the zero point of the balance. Minor changes in weight in the zero point range are tared automatically, i.e. the displayed figure remains at zero.

7.2.9 FILTER / SPEED

The balance can be adapted in stages to its location from 1 – 5.

Stage 1 = good installation conditions, fast **display / low filter effect** (e.g. proportioning)

Stage 5 = poor installation conditions, slow **display / high filter effect** (restless environment) e.g. proportion weighing requires a greater display speed and this can be adjusted by selecting "Fast" in the MODE program.

7.2.10 AUTO OFF active

AUTO OFF inactive

The auto-off function inactivates the balance after approx. 60 seconds if it is not in use.

7.2.11 VARIABLE FACTOR

The weighing value in grams is automatically multiplied by the set variable factor and the result (including the unit *) shown on the display. Example:

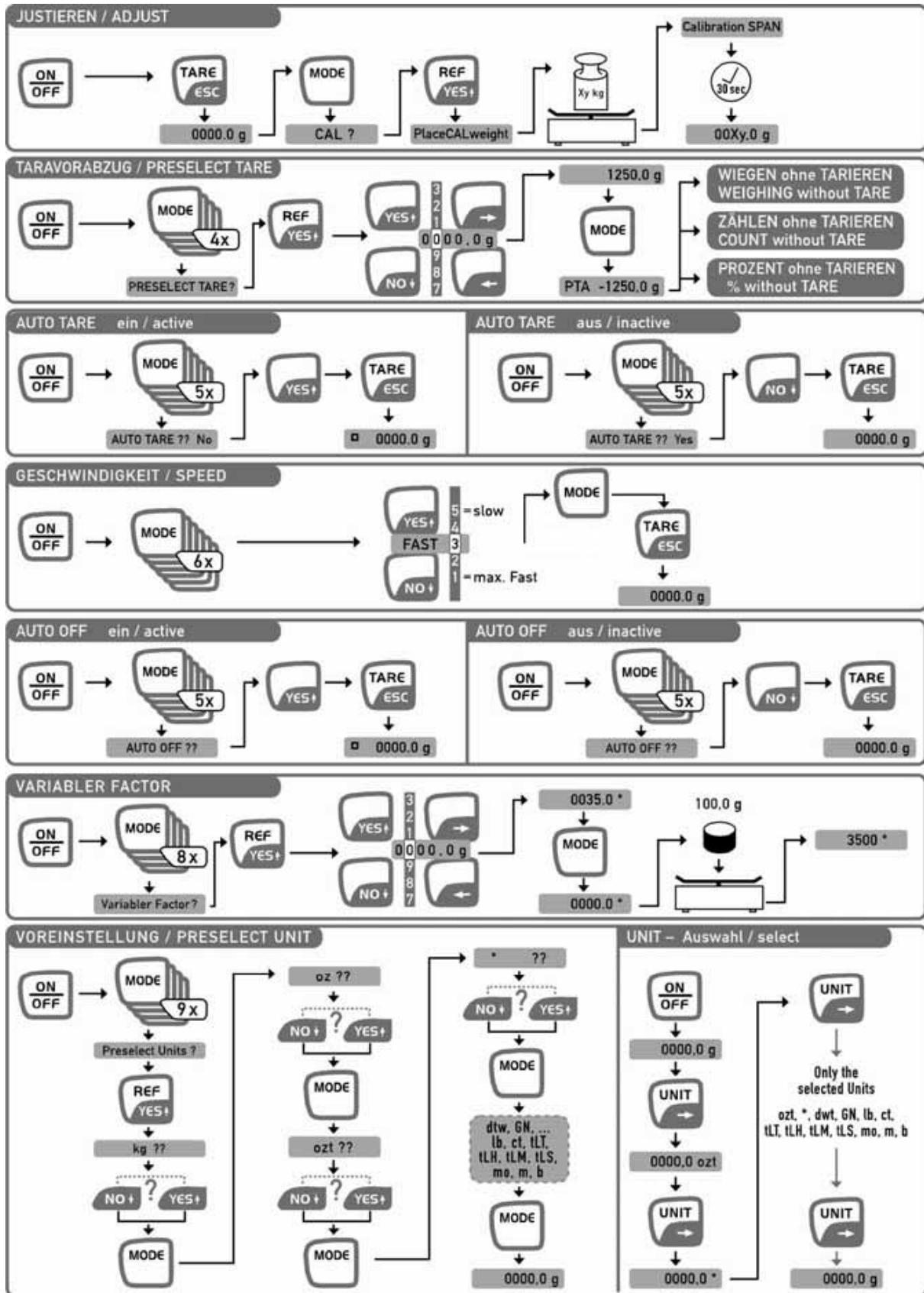
A sheet of paper sized 10 x 10cm weighs 0,6 g. In order to determine the weight g/m², the factor has to be at 100.
The display value is 0,6g x 100 = 60,0*, thus 60,0 g/m².

7.2.12 PRESELECT UNIT

UNIT - select

All selected units checked YES in Preselect Units are offered on the UNIT key in weighing mode for unit changeover.
Recommendation: Only preselect the units that are actually required.

Each time the UNIT key is pressed, the next preselected unit (using Preselect Units) is selected.



7.3 Display background illumination

After having switched on your balance and the zero display, press the „MODE“ button to select the menu point „Backlight“. Acknowledge by pressing the „YES“ button in order to switch on the permanent background illumination. By pressing the „NO“ button, the background illumination is switched off.

If the background illumination shall be switched off time-controlled (to save the battery), press the „MODE“ button to select the menu point „Backlight auto“ and confirm by pressing the „YES“ button. The background illumination will be switched off automatically 10 sec after having reached a stable weighing value.

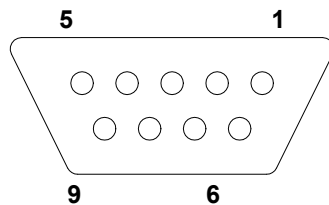
7.4 Interface RS 232 C

Technical Data

- 8-bit ASCII Code
- 1 start bit, 8 data bits, 1 stop bits, no parity bit
- Baud rate adjustable to 2400, 4800 and 9600 baud (default), 19200 baud
- Sup-D- 9 pol. is necessary .
- When working with an interface correct operation is secured only if the corresponding KERN-interface-cable (max. 2m) is used.

Description of the jack

Sup-D- 9 pol.



Pin 2: Transmit data

Pin 3: Receive data

Pin 5: Signal ground

Baudrate

The Baud rate for the data transfer is adjusted with the MODE-key. The following example demonstrates how to set the Baud rate 4800.

Select Baud rate	Display
1. Press MODE-key repeatedly until "PRINTER" is displayed.	PRINTER?
2. Press YES-key.	2400 Baud
3. Press MODE-key repeatedly until the desired Baud rate appears (for instance 4800 Baud).	4800 Baud
4. Press YES-key to select 4800 Baud. The tick-mark (X) confirms the new setting.	4800 Baud X
5. Press MODE-key repeatedly until the balance displays in grams again, or press tare key.	0,0 g

7.5 RS 232 C Data output via interface RS 232 C

RS 232 C Data output via interface RS 232 C

General information

As a condition for the data transfer between the balance and a peripheral device (for instance printer, PC ...) both device have to be set on the same interface parameter (for instance baud rate, parity ...).

7.5.1 There are 5 methods for the data output via RS 232 C

Data output via PRINT-Key

The printing process can be released by the PRINT-key. In this case the settings AUTOPRINT and AUT-PRINT PC should be deselected.

AUTOPRINT (Data output, after having loaded the balance)

The setting AUTOPRINT is in the PRINTER-routine, and there it can be selected or deselected. When AUTOPRINT is active the actual weighing value will be sent via the RS 232 interface when the balance has been unloaded and then loaded after having achieved the stability.

AUTOPRINT PC (Continuous data output)

The setting AUTPRINT PC is in the PRINTER-routine, and there it can be selected or deselected. When AUTOPRINT PC is active the actual weighing values will be sent continuously via the RS 232 interface.

Data output by transfer of remote controls

The following functions can be released by the remote controls that will be transferred as ASCII signs to the balance.

t Tare.

w a weighing value (or unstable) is sent via RS 232 interface.

s a stable weighing value is sent via RS 232 interface.

If the balance receives the command w or s, it acts without printing delay.

Output on bar code printer


The data transfer mode has to be set on „Barcode“.

As bar code printer a Zebra printer model LP2824 is provided.

Take into account that the output format of the balance is fixedly defined and cannot be changed.

The printer format is stored in the printer, i.e. in case of a failure the printer cannot be changed with a new one from factory, previously it is necessary that KERN installs the respective software.

The Zebra printer and the balance must be connected to the delivered interface cable when they are switched off.

After switching-on both appliances, and after reaching the status ready-for-operation, a label will be printed out when pressing the  key.

7.5.2 Description of the data transfer

Structure of each data transfer:

Without Numerator:

Bit-Nr.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		B	B	B	B	B	B	B	B	0	.	0	B	g	B	B	CR	LF
	B*																	

B*: = Blank or % in the range of zero point.

B, 0, , g: = Blank or weighing value with unit, depending on the load on the weighing plate.

CR: = Carriage Return

LF: = Line Feed

With Enumerator:

Bit.Nr.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	N	N	N	B*	B	B	B	B	B	B	0	.	0	B	G	B	B	CR	LF	
N:	=	Enumerator																		

7.5.3 Numerator

The Numerator is found under the menu point "Printer" and can be activated and deactivated. When editing data with the use of the print option, the range of the numerator will increase by one place.

7.6 Printer

With the serial data output RS 232 a printer can be connected.

The printout shows the weight in grams. When the counting mode is selected the number of pieces or the weight is printed. When the percent mode is selected, the percentage or the weight will be printed. Press The PRINT-key to print weighing results. Select the enumerator to number the weighing continuously. Turn off the balance or use the CLEAR function to Reset the enumerator to (000).

7.7 Underfloor weighing

Objects which, because of their size or shape, cannot be put on the scale, can be weighed by means of underfloor weighing.

Proceed as follows:

- Switch off the balance.
- Turn the balance over, without loading the balance plate.
- Open the cover plate on the base of the balance.
- Hang on the hook for underfloor weighing .
- Place the balance over an opening.
- Hang the item to be weighed on the hook and carry out weighing.

! CAUTION !

**Take care that the hooks used for the underfloor weighing are stable enough to hold the goods which you wish to weigh (risk of breakage).
Always make sure that there are no living beings or materials below the load that could be injured or damaged.**

! NOTE !

After completing the underfloor weighing, the opening in the floor of the balance must be closed again (dust protection).

8 Maintenance, upkeep, disposal

8.1 Cleaning

Please disconnect the device from the operating voltage before cleaning.

Only use a cloth dampened with mild suds and not aggressive cleaning agents (solvents or similar). Please ensure that fluids are not able to get into the device and rub off using a clean, soft cloth.

Loose sample residue/powder can be removed carefully using a brush or hand vacuum cleaner.

Remove any spilt material to be weighed immediately.

8.2 Maintenance, upkeep

The device may only be opened by trained service engineers authorised by KERN.

Disconnect from the mains supply before opening.

8.3 Disposal

The operating company shall dispose of the packaging and the device in compliance with the valid national or regional law of the operating location.

9 Troubleshooting

The balance should be switched off for a short time following an interruption in the programme sequence and disconnected from the mains supply. It is then necessary to repeat the weighing process from the beginning.

Help:

Interruption

Weight display is not illuminated.

Possible cause

- *The balance is not switched on.*
- *The mains supply connection has been interrupted (mains cable not plugged in/faulty).*
- *Power supply interrupted. .*

The weight display changes continually

- *Draught/air movement*
- *Table/floor vibrations*
- *The weighing plate is in contact with foreign matter.*
- *Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)*

The weighing result is obviously incorrect

- *The balance display is not set to zero*
- *Adjustment is no longer correct.*
- *Great fluctuations in temperature.*
- *Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)*

Switch the balance off if other error messages should appear and then switch on again. Contact the manufacturer if the error message does not disappear.

10 Declaration of conformity



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Konformitätserklärung

EC-Konformitätserklärung

EC- Déclaration de conformité

EC-Dichiarazione di conformità

EC- Declaração de conformidade

EC-Deklaracja zgodności

EC-Declaration of -Conformity

EC-Declaración de Conformidad

EC-Conformiteitverklaring

EC- Prohlášení o shode

EC-Заявление о соответствии

D	Konformitäts- erklärung	Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt.
GB	Declaration of conformity	We hereby declare that the product to which this declaration refers conforms with the following standards.
CZ	Prohlášení o shode	Tímto prohlašujeme, že výrobek, kterého se toto prohlášení týká, je v souladu s níže uvedenými normami.
E	Declaración de conformidad	Manifiestamos en la presente que el producto al que se refiere esta declaración está de acuerdo con las normas siguientes
F	Déclaration de conformité	Nous déclarons avec cela responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après.
I	Dichiarazione di conformità	Dichiariamo con ciò che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate.
NL	Conformiteit- verklaring	Wij verklaren hiermede dat het product, waarop deze verklaring betrekking heeft, met de hierna vermelde normen overeenstemt.
P	Declaração de conformidade	Declaramos por meio da presente que o produto no qual se refere esta declaração, corresponde às normas seguintes.
PL	Deklaracja zgodności	Niniejszym oświadczamy, że produkt, którego niniejsze oświadczenie dotyczy, jest zgodny z poniższymi normami.
RUS	Заявление о соответствии	Мы заявляем, что продукт, к которому относится данная декларация, соответствует перечисленным ниже нормам.

Electronic Balance:

KERN 572 / 573 / FCB / FKB / KB..N / DS

Mark applied	EU Directive	Standards
CE	2004/108/EC	EN 61000-6-3:2001 EN 55011:1998 + A1:1999 + A2:2002 EN 45501:1992-10+AC:1993-08 OIML R 76-1:2006
	2006/95/EC	EN 60950

Date: 18.12.2009

Signature:

**Gottl. KERN & Sohn GmbH
Management**

Gottl. KERN & Sohn GmbH, Ziegelei 1, D-72336 Balingen, Tel. +49-[0]7433/9933-0, Fax +49-[0]7433/9933-149

Konformitätserklärung

EC-Konformitätserklärung
EC- Déclaration de conformité
EC-Dichiarazione di conformità
EC- Declaração de conformidade
EC-Deklaracja zgodności
EC-Declaration of -Conformity
EC-Declaración de Conformidad
EC-Conformiteitverklaring
EC- Prohlášení o shode
ЕС-Заявление о соответствии

D	Konformitäts- erklärung	Wir erklären hiermit, dass das Produkt, auf das sich diese Erklärung bezieht, mit den nachstehenden Normen übereinstimmt. Diese Erklärung gilt nur in Verbindung mit der Konformitätsbescheinigung einer benannten Stelle.
GB	Declaration of conformity	We hereby declare that the product to which this declaration refers conforms with the following standards. This declaration is only valid with the certificate of conformity by a notified body.
CZ	Prohlášení o shode	Tímto prohlašujeme, že výrobek, kterého se toto prohlášení týká, je v souladu s níže uvedenými normami. Toto prohlášení platí pouze ve spojitosti s deklarací o souladu uvedeného pracoviště se směrnicemi EU.
E	Declaración de conformidad	Manifiestamos en la presente que el producto al que se refiere esta declaración está de acuerdo con las normas siguientes. Esta declaración solo será válida acompañada del certificado de conformidad de una institución renombrada.
F	Déclaration de conformité	Nous déclarons avec cela responsabilité que le produit, auquel se rapporte la présente déclaration, est conforme aux normes citées ci-après. Cette déclaration est valide seulement avec un certificat de conformité d'un organisme notifié.
I	Dichiarazione di conformità	Dichiariamo con ciò che il prodotto al quale la presente dichiarazione si riferisce è conforme alle norme di seguito citate. Questa dichiarazione sarà valida solo se accompagnata dal certificato di conformità della parte nominale.
NL	Conformiteit- verklaring	Wij verklaren hiermede dat het product, waarop deze verklaring betrekking heeft, met de hierna vermelde normen overeenstemt. Deze verklaring geldt uitsluitend in verbinding met het certificaat van overeenstemming vanwege een daarmee belaste instantie.
P	Declaração de conformidade	Declaramos por meio da presente que o produto no qual se refere esta declaração, corresponde às normas seguintes. Esta declaração vale só em combinação com um certificado de conformidade numa instituição nomeada.
PL	Deklaracja zgodności	Niniejszym oświadczamy, że produkt, którego niniejsze oświadczenie dotyczy, jest zgodny z poniższymi normami. Niniejsze oświadczenie obowiązuje wyłącznie w połączeniu z oświadczeniem o zgodności danego miejsca.
RUS	Заявление о соответствии	Мы заявляем, что продукт, к которому относится данная декларация, соответствует перечисленным ниже нормам. Эта декларация действует совместно с удостоверением соответствия названной лаборатории.

Electronic Balance: 573-XXNM / KBxx-xNM / FKBxxKxxM / FCBxxKxxM / DSxxKxxM

EU Directive	Standards	EC-type-approval certificate no.	Issued by	Modell
90/384/EEC	EN 45501	TCM 128/08 - 4630	CMI	573-xxNM
90/384/EEC	EN 45501	TCM 128/08 - 4631	CMI	KBxx-xNM
90/384/EEC	EN 45501	TCM 128/08 - 4632	CMI	FKBxxKxxM
90/384/EEC	EN 45501	TCM 128/08 - 4636	CMI	FCBxxKxxM
90/384/EEC	EN 45501	TCM 128/08 - 4637	CMI	DSxxKxxM

Date: 18.12.2009

Signature:



Gottl. KERN & Sohn GmbH
Management

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