

Standard

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

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

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

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

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



Only ABJ Only ABS Standard

M
Verification Possible

DKD
Certificate Possible

3
Warranty Years

Analytical Balance 0.1 mg

High standard for small budgets



Carat: 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



Metal casing
sturdy and stable

Test weight inclusive

only for KERN ABS. Option: DKD Certificate, KERN 960-477



Capacity display

A bar graph shows the current available weighing range

Identification number
4 numeric positions, free input

Model	Read-out	Weighing range	Verific. value	Min. load	Reproducibility	Linearity	Min. piece weight at piece count.	
KERN	d	Max	e	Min	mg	mg	mg	
	mg	g	mg	g				
☺ ABS 80-4	0.1	83	-	-	0.1	± 0.2	10	
☺ ABS 120-4	0.1	120	-	-	0.1	± 0.2	10	
☺ ABS 220-4	0.1	220	-	-	0.1	± 0.2	10	
☺ ABJ 80-4M	1	0.1	83	1	0.01	0.1	± 0.2	10
☺ ABJ 120-4M	1	0.1	120	1	0.01	0.1	± 0.2	10
☺ ABJ 220-4M	1	0.1	220	1	0.01	0.1	± 0.2	10

☺ New models! Casing W x D x H 215 x 315 x 330 mm. Weighing space W x D x H 200 x 170 x 240 mm. Net weight approx. 7 kg. LCD display with digit height 14 mm. Permissible ambient temperature +10 ... +30°C. Piece counting with reference 10, 20, 50, 100 pieces.

KERN - Your DKD Calibration Partner

issues DKD calibration certificates for balances and test weights in its own accredited laboratories. It is internationally valid.



KERN is manufacturer of test weights in the international classes of accuracy E1, E2, F1, F2, M1, M2, M3, from 1 mg up to 2000 kg



DKD = German Calibration Service

Your specialist dealer

KERN & Sohn GmbH, D-72322 Balingen, Postbox 40 52
Tel. 00 49-[0]74 33-99 33-0 Fax 00 49-[0]74 33-99 33-149
e-mail: info@kern-sohn.com Internet: www.kern-sohn.com



Measurement data	ABS 80-4	ABS 120-4	ABS 220-4
Reproducibility	0.1mg	0.1mg	0.1mg
Linearity	+/-0.2mg	+/-0.2mg	+/-0.2mg
Stabilisation time	3s	3s	3s
Sensitivity drift	2*10 ⁻⁶ °C	2*10 ⁻⁶ °C	2*10 ⁻⁶ °C
Verification data			
Verification class			
Verification value	-	-	-
Minimum load	-	-	-
Verification in the factory possible	-	-	-
Piece counting			
Minimum piece weight	0.01g	0.01g	0.01g
Reference quantity		10, 20, 50, 100	
Ambient conditions			
Permissible ambient temperature	5-40°C	5-40°C	5-40°C
Permissible ambient humidity	max. 80% (no condensation)		
Basic equipment			
Protective working cover	-	-	-
Accumulator	-	-	-
Battery-supply	-	-	-
AUTO-OFF function	-	-	-
Mains adapter	EURO, UK, US, AUS	EURO, UK, US, AUS	EURO, UK, US, AUS
Filter steps	3	3	3
Typ of balance display	LCD	LCD	LCD
Digit height of balance display	13mm	13mm	13mm
Levelling feet, level indicator	Yes	Yes	Yes
Weighing units	g, mg, ct, mom, Lb, Oz, Ozt, HK, SPorE, tiwAn, mAL, CHinA, dwt, GN	g, mg, ct, mom, Lb, Oz, Ozt, HK, SPorE, tiwAn, mAL, CHinA, dwt, GN	g, mg, ct, mom, Lb, Oz, Ozt, HK, SPorE, tiwAn, mAL, CHinA, dwt, GN
Freely programmable weighing units	-	-	-
Internal adjusting weight	-	-	-
Adjusting weight	50g, E2	100g, E2	200g, E2
Recommended adjusting weight	-	-	-
Stand-by function	Yes	Yes	Yes
EX protection	-	-	-
Dimensions / materials / weights			
Dimensions of casing, WxDxH, mm	217x305x320	217x305x320	217x305x320
Material of casing	Metal	Metal	Metal
Draught guard, HxWxD, mm	205x230x260	205x230x260	205x230x260
Material of draught guard	Glass	Glass	Glass
Dimensions of packaging, WxDxH, mm	400x500x450	400x500x450	400x500x450
Gross weight	9kg	9kg	9kg
Net weight	7kg	7kg	7kg



Measurement data	ABJ 80-4M	ABJ 120-4M	ABJ 220-4M
Reproducibility	0.1mg	0.1mg	0.1mg
Linearity	+/-0.2mg	+/-0.2mg	+/-0.2mg
Stabilisation time	3s	3s	3s
Sensitivity drift	2*10 ⁻⁶ °C	2*10 ⁻⁶ °C	2*10 ⁻⁶ °C
Verification data			
Verification class	I	I	I
Verification value	1mg	1mg	1mg
Minimum load	0.01g	0.01g	0.01g
Verification in the factory possible	Yes	Yes	Yes
Piece counting			
Minimum piece weight	0.01g	0.01g	0.01g
Reference quantity	10, 20, 50, 100		
Ambient conditions			
Permissible ambient temperature	5-40°C	5-40°C	5-40°C
Permissible ambient humidity	max. 80% (no condensation)		
Basic equipment			
Protective working cover	-	-	-
Accumulator	-	-	-
Battery-supply	-	-	-
AUTO-OFF function	-	-	-
Mains adapter	EURO, UK, US, AUS	EURO, UK, US, AUS	EURO, UK, US, AUS
Filter steps	3	3	3
Typ of balance display	LCD	LCD	LCD
Digit height of balance display	13mm	13mm	13mm
Levelling feet, level indicator	Yes	Yes	Yes
Weighing units	g, ct	g, ct	g, ct
Freely programmable weighing units	-	-	-
Internal adjusting weight	Yes	Yes	Yes
Adjusting weight	-	-	-
Recommended adjusting weight	-	-	-
Stand-by function	Yes	Yes	Yes
EX protection	-	-	-
Dimensions / materials / weights			
Dimensions of casing, WxDxH, mm	217x305x320	217x305x320	217x305x320
Material of casing	Metal	Metal	Metal
Draught guard, HxWxD, mm	205x230x260	205x230x260	205x230x260
Material of draught guard	Glass	Glass	Glass
Dimensions of packaging, WxDxH, mm	400x500x450	400x500x450	400x500x450
Gross weight	9kg	9kg	9kg
Net weight	7kg	7kg	7kg

