## KERN ABS 220-4N



### The bestseller in analytical balances, with high-quality single-cell weighing system



Category	
Brand	KERN
Product categoriy	Laboratory balance
Product group	Analytical balance
Product family	ABS-N
Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Resolution	2.200.000
Linearity	± 0,0003 g
Reproducibility	0,0002 g
Default unit	g
Units	g mg gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct oz tl (Cn) mom
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (E2)

Possible calibration points100 gStabilization time3 sWarm-up time8 hEccentric loading at 1/3 [Max]0,0005 gMaximum creep (15 minutes)1 mgMaximum creep (30 minutes)2 mgApproval2CE markDisplayLCDDisplay typeLCDDisplay screen size115×32 mmDisplay digit height14 mmLanguages of the user interfaceSymbol languageConstruction174×162×227 mmDimension housing (W×D×H)213×333×338 mmDimensions rectangular draught shield - inner (W×D×H)201×220×256 mmMaterial display housingPlasticsMaterial display housingplasticMaterial display housing91 mmLevelling feet adjustableVfunctionFunctions0 - 99 minTare functionPare functionPare functionStandby functionQuitage determinationQuitage determinationCounting functionMaterial draught shieldslassSimane of keys for operation6Auto-off interval(s) in mains power modeTolerance weighingTolerance weighingCounting functionCuonting functionUnderfloor weighing levelRec A (Net total)Sum memory functionUnderfloor weighingNoneInterfacesRS		
Warm-up time8 hEccentric loading at 1/3 [Max]0,0005 gMaximum creep (15 minutes)1 mgMaximum creep (30 minutes)2 mgApprovalCE markDisplayLCDDisplay typeLCDDisplay screen size115×32 mmDisplay digit height14 mmLanguages of the user interfaceSymbol languageConstruction174×162×227 mmDimension housing (W×D×H)213×333×338 mmDimensions rectangular draught shield - inner (W×D×H)201×220×256 mmMaterial display housingPlasticsMaterial display housingplasticMaterial display surface (Ø)91 mmJimensions weighing surface (Ø)91 mmLevelling feet adjustable-Functions0 - 99 minTare functionParent used interval(s) in mains power mode-Ouring functionStandby functionMaterial draught shieldslassDimensions weighing surface (Ø)91 mmLevelling feet adjustableCounting functionMaterial draught shieldslassDimension weighing varface (Ø)91 mmLevelling feet adjustableCounting functionMaterial draught shieldslassMaterial draught shieldslassJimensions weighing varfaceMaterial draught shieldslassJimension weighingMaterial draught shieldsl	Possible calibration points	100 g
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Maximum creep (15 minutes)1 mgMaximum creep (30 minutes)2 mgApprovalCE mark✓DisplayLCDDisplay typeLCDDisplay screen size115×32 mmDisplay backlightnoDisplay digit height14 mmLanguages of the user interfaceSymbol languageConstruction213×333×338 mmDimension housing (W×D×H)213×333×338 mmDimensions rectangular draught shield - outer (W×D×H)201×220×256 mmMaterial display housingPlasticsMaterial display housingplasticMaterial dusing surface (Ø)91 mmLevelling feet adjustable✓FunctionsNumber of keys for operation mode6Auto-off interval(s) in mains power mode0 - 99 minTare function✓Percentage determination✓Counting function✓Tolerance weighing - type of signal Standby function✓Numerory function✓Materflor weighing levelRez A (Net total)Sum memory function✓Materflor weighingNone	Warm-up time	8 h
Maximum creep (30 minutes)2 mgApprovalCE mark✓DisplayLCDDisplay typeLCDDisplay screen size115×32 mmDisplay backlightnoDisplay digit height14 mmLanguages of the user interfaceSymbol languageConstruction213×333×338 mmDimension housing (W×D×H)213×20×256 mmDimensions rectangular draught shield - inner (W×D×H)201×220×256 mmMaterial display housingPlasticsMaterial display housingplasticMaterial display housing91 mmLevelling feet adjustable✓FunctionsNumber of keys for operation mode6Auto-off interval(s) in mains power mode0 - 99 minTare functionPercentage determination✓Counting function✓Tolerance weighing - type of signal Standby functionvisualStandby function✓Materifor weighing levelKez A (Net total)Sum memory function✓Materfloor weighingNone	Eccentric loading at 1/3 [Max]	0,0005 g
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CE mark ✓   Display LCD   Display screen size 115×32 mm   Display backlight no   Display digit height 14 mm   Languages of the user interface Symbol language   Construction 213×333×338 mm   Dimension housing (W×D×H) 213×333×338 mm   Dimension housing (W×D×H) 213×20×256 mm   Dimensions rectangular draught shield - inner (W×D×H) 201×220×256 mm   Dimensions rectangular draught shield - outer (W×D×H) 201×220×256 mm   Material display housing Plastics   Material display housing plastic   Material dusing plate stainless steel   Material draught shield glass   Dimensions weighing surface (Ø) 91 mm   Levelling feet adjustable ✓   Functions 0 - 99 min   Number of keys for operation 6   Auto-off interval(s) in mains power mode 0 - 99 min   Tolerance weighing - type of signal visual   Standby function ✓   Tolerance weighing - type of signal visual   Standby function ✓   Kecipe / summi	Maximum creep (30 minutes)	2 mg
CE mark ✓   Display LCD   Display screen size 115×32 mm   Display backlight no   Display digit height 14 mm   Languages of the user interface Symbol language   Construction 213×333×338 mm   Dimension housing (W×D×H) 213×333×338 mm   Dimension housing (W×D×H) 213×20×256 mm   Dimensions rectangular draught shield - inner (W×D×H) 201×220×256 mm   Dimensions rectangular draught shield - outer (W×D×H) 201×220×256 mm   Material display housing Plastics   Material display housing plastic   Material dusing plate stainless steel   Material draught shield glass   Dimensions weighing surface (Ø) 91 mm   Levelling feet adjustable ✓   Functions 0 - 99 min   Number of keys for operation 6   Auto-off interval(s) in mains power mode 0 - 99 min   Tolerance weighing - type of signal visual   Standby function ✓   Tolerance weighing - type of signal visual   Standby function ✓   Kecipe / summi		
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Material housingplasticMaterial weighing platestainless steelMaterial draught shieldglassDimensions weighing surface (Ø)91 mmLevelling feet adjustable✓FunctionsFunctionsNumber of keys for operation6Auto-off interval(s) in mains power mode0 - 99 minTare function✓Percentage determination✓Counting function✓Tolerance weighing - type of signal Standby functionvisualStandby function✓Recipe/summing levelRez A (Net total)Sum memory function✓	· ,	
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Tolerance weighing✓Tolerance weighing - type of signalvisualStandby function✓Recipe/summing levelRez A (Net total)Sum memory function✓Underfloor weighingNone	Percentage determination	1
Tolerance weighing - type of signalvisualStandby function✓Recipe/summing levelRez A (Net total)Sum memory function✓Underfloor weighingNone	Counting function	1
Standby function✓Recipe/summing levelRez A (Net total)Sum memory function✓Underfloor weighingNone	Tolerance weighing	1
Recipe/summing levelRez A (Net total)Sum memory function✓Underfloor weighingNone	Tolerance weighing - type of signal	visual
Sum memory function✓Underfloor weighingNone	Standby function	✓
Sum memory function✓Underfloor weighingNone	Recipe/summing level	Rez A (Net total)
	Sum memory function	-
Interfaces RS-232 (optional)	Underfloor weighing	None
	Interfaces	RS-232 (optional)

# KERN ABS 220-4N



The bestseller in analytical balances, with high-quality single-cell weighing system

#### Counting

U	
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	1
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	220.000

#### Power Supply

Input voltage power supply / power [Max]	110 V - 230 V AC
Input voltage device / power [Max]	12 V DC, 1000 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US CH
Plug-in power supply / adapter for countries - optional	EURO AUS UK US CH

#### Environmental conditions

Humity of environment [Min]	20 %
Humity of environment [Max]	85 %
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C
Storage temperature [Max]	50 °C

#### Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	395×570×525 mm
Net weight	6 kg
Shipping method	Parcel service
Net weight approx.	6 kg
Gross weight approx.	9 kg
Shipping weight	23,6 kg

963-101

#### Services (optional)

Article number for DAkkS
calibration

Article number for certificate of conformity (verification)

Pictograms

#### 969-517

### STANDARD



#### 

1 DAY

#### OPTION

• 600. •	DAkkS
RS 232	+3 DAYS