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NAHITA-BLUE BALANCES ICONS



AUTOMATIC INTERNAL ADJUSTMENT:
Adjustment through internal calibration weight driven by motor.



ADJUSTING PROGRAM CAL:
An external adjustment weight is required



DATA INTERFACE RS-232:
To connect the machine to a printer, computer, or network.



USB:
To connect the equipment to a printer, computer, or other peripheral device.



PIECE COUNTING:
Selectable number of references. Switching from unit display to weight display.



PERCENTAGE DETERMINATION:
Determinación de la desviación en % del valor teórico (100%)



WEIGHTING UNITS:
By pressing the unit key.



UNDER WEIGHTING:
Through a hook on the bottom of the scale.



POWER SUPPLY BY ACCUMULATOR



POWER SUPPLY BY BATTERIES:
For batteries operation, the battery type is indicated on each device.



CURRENT ADAPTER
110/220 V as standard in the EU.



POWER CABLE:
Integrated into the EU standard 230 V/50 Hz balance.



STRAIN GAUGES



ELECTROMAGNETIC FORCE COMPENSATION:
Coil on a permanent magnet, for the most accurate weighing



KBB - Electronical, precision 1 - 0.1 g



Series 5041



- 1| Very affordable, ideal for home use and teaching.
- 2| ABS plastic housing and easy to read digital display.
- 3| Hermetic splash-proof keyboard.
- 4| Automatic calibration with external weight (not included)

Code	KBB001	KBB002	KBB003*
Capacity (g)	500	2000	5000
Readability (g)	0.1	1.0	2
Accuracy (g)	± 0,1	± 0,1	± 0,1
Pan size (mm)	Ø 148		
Weighting units	g, oz		
Dimensions (mm)	170x250x45		
Power	Adapter AC220V / 4 battery 1.5V (AA)		

*Battery and adapter not included (adapter not available)

▶ KBB - Electronical, precision 1 - 0.1 g

▶ Series 5161



- 1| High-precision load sensor.
- 2| Large and easy to read display with backlit LCD.
- 3| Plastic housing and stainless steel plate. Polyethylene cover.
- 4| Weighing and counting functions.
- 5| Automatic calibration by external weight (see table), weight only included in the KBB004 model
- 6| With integrated rechargeable battery.

balances icons - series 5161



Code	KBB004	KBB005	KBB006	KBB007
Max capacity. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,1	± 0,1	± 0,1	± 0,1
Pan size (mm)	143x192			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo			
Calibration weight(kg)	dwt, oz, lb, tIT, ozt, tIH, %			
	0.5	1	2	2
	(Included)	(Not included)	(Not included)	(Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			



▶ Series 5171



- 1| High-precision load sensor and overload protection
- 2| Large, easy to read backlit LCD display
- 3| Plastic housing and stainless steel plate.
- 4| Weighing, parts counting and hook functions for bottom weighing.
- 5| Automatic calibration by external weight, weight included only in ref. KBB008

balances icons - series 5171



Code	KBB008	KBB009	KBB010	KBB011
Capacity máx. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,1	± 0,1	± 0,1	± 0,1
Pan size (mm)	Ø 135	Ø 135	155x143	155x143
Weighting units	g, oz, ct, lb			
Calibration weight(kg)	0.5	1	2	2.5
	(Included)	(Not included)	(Not included)	(Not included)
Dimensions (mm)	265x200x80			
Power	AC110-220V / 4 battery 1.5V (AA) (Not included)			



CODE- KBB008 - KBB009



CODE- KBB010 - KBB011



KBB - Electronical, precision 1 - 0.1 g

► Series LED-5161



balances icons - series 5161-LED



Code	KBB012	KBB013
Max capacity. (g)	10000	20000
Readability (g)	0.1	
Repetitibilidad	± 0,1 g	
Non-linearity	± 0,2 g	
Pan size (mm)	337x237 mm	
Weighting units	gr, kg, lb	
Dimensions (mm)	370x370x125 mm	
Power	100-240V, 50-60 Hz / 4V4AH/20HR	

► Digital balance



- 1| Simple and affordable scales for home and school use.
- 2| They have a 170 mm PE weighing pan and 900 mL capacity.



Code	KBB018
Capacity (g)	1000
Readability (g)	0.1
Accuracy (g)	±0.2
Pan size (mm)	Ø 110
Weighting units	g, oz
Dimensions (mm)	160x127x35

*Battery and adapter not included (adapter not available)



KBC - Electronical, precision 0.01 g

► Series5162



balances icons - series 5162



Code	KBC001	KBC002	KBC003	KBC004
Max capacity. (g)	300	500	1000	2000
Readability (g)	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	120x155			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ mo, dwt, oz, lb, tIT, ozt, tIH, %			
Calibration weight(kg)	0.2	0.5	0.5	1
	(Included)	(Included)	(Included)	(Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			



KBC - Electronical, precision 0.01 g

Series 5172



- 1| High-precision load sensor and overload protection
- 2| Large, easy to read backlit LCD display
- 3| Plastic housing and stainless steel plate.
- 4| Weighing and piece counting.
- 5| Automatic calibration by external weight, included except for references KBC008 and KBC009.

balances icons - series 5172



Code	KBC005	KBC006	KBC007	KBC008	KBC009
Max capacity. (g)	300	500	1000	3000	5000
Readability (g)	0.01	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	Ø135	Ø135	Ø135	155x143	155x143
Weighting units	g, oz, ct, lb				
Calibration weight(kg)	0.2 (Incl.)	0.5 (Incl.)	0.5 (Incl.)	2 (No incl.)	3 (No incl.)
Dimensions (mm)	265x200x80				
Power	110-220VAC / 4 battery 1.5V (AA) (Not included)				



CODE- KBC005 - KBC006 - KBC007



CODE- KBC008 - KBC009

KBD - Electronical, precision 0.001 g

Series 5133



- 1| Electromagnetic force compensation technology.
- 2| Adjustment of the sensitivity level and weighing speed. Overload protection.
- 3| Large, easy-to-read backlit LCD display.
- 4| Aluminium housing and stainless steel plate.
- 5| Weighing, parts counting, percentage and hook functions for lower weighing.
- 6| Automatic calibration by external weight (included). RS232 and USB outputs.

balances icons - series 5133



Code	KBD001	KBD002	KBD003
Accuracy Class	Class II	Class II	Class I
Max capacity. (g)	100	300	500
Min capacity (g)	0.020	0.020	0.020
Readability (g)	0.001	0.001	0.001
Valor verificación escala (g)	0.01		
Repeatability (g)	±0.001		
±0.5e	0 ≤ m ≤ 5000		
±1.0e	5000 ≤ m ≤ 20000		
±1.5e	20000 < m		
Stabilization time (s)	≤5		
Pan size (mm)	Ø 90		
Weighting units	g, mg, ct, oz		
Calibration weight(kg)	0.1 (inclu.)	0.2 (inclu.)	0.2 (inclu.)
Total dimensions (mm)	340x215x350		
Power	110-220VAC, 50/60Hz		





KBD - Electronical, precision 0.001 g

► Series 5173



- 1 | High-precision load sensor and overload protection
- 2 | Aluminium housing and stainless steel plate.
- 3 | Large, easy to read backlit LCD display.
- 4 | Weighing, parts counting and hook functions for bottom weighing.
- 5 | Automatic calibration by external weight (included).

balances icons - series 5173



Code	KBD004	KBD005
Max capacity. (g)	100	300
Readability (g)	0.001	0.001
Repeatability (g)	±0.002	±0.002
Linearity (g)	±0.002	±0.002
Error (g)	±0.002	±0.002
Stabilization time (s)	1-1.5	
Pan size (mm)	90	
Weighting units	g, ct, oz, lb, ozt	
Calibration weight(kg)	0.05 (Included)	0.2 (Included)
Total dimensions (mm)	295x192x280	
Power	220-240VAC/50Hz	



KBF - Analytical, precision 0.0001 g

► Series 5134



- 1 | Electromagnetic force compensation technology.
- 2 | Adjustment of the sensitivity level and weighing speed.
- 3 | Overload protection. Large, easy-to-read backlit LCD display.
- 4 | Aluminium housing and stainless steel plate. Weighing, parts counting, percentage and hook functions for lower weighing.
- 5 | Automatic calibration by external weight (included) or internal depending on the model.

balances icons - series 5134



Series5134 EX; External calibration	KBF001	KBF003
Series5134 INT; Internal calibration	KBF002	KBF004
Accuracy Class	Class I	Class I
Max capacity. (g)	120	220
Min capacity (g)	0,010	0,010
Readability (g)	0.0001	0.0001
Scale verification value (g)	0.001	
Repeatability (g)	±0.0002	
±0.5e	0≤m≤50000	
±1.0e	50000 <m≤200000	
±1.5e	20000 <m	
Stabilization time (s)	≤8	
Pan size (mm)	Ø 80	
Weighting units	g, mg, ct, oz	
Total dimensions (mm)	340x215x350	
Power	110-220VAC, 50/60Hz	

KBH - Pocket balances

Series 5043



- 1| Compact and robust design with protective cover.
- 2| Backlit touch screen for easy reading
- 3| Stainless steel weighing pan.
- 4| Weighing, parts counting and tare function by direct access key.
- 5| One-point calibration (calibration weight not included).

Code	KBH001	KBH002	KBH003
Capacity (g)	100	200	500
Readability (g)	0.01	0.01	0.1
Pan size (mm)	60x60		
Weighting units	g, ct, dwt, oz, ozt		
Calibration weight	0,1 kg	0.2 kg	-
Dimensions (mm)	70x115x20		
Power	2 battery 1.5 V (AAA)		



KBK - Analytical, precision 0,00001 g

Model 5135



- 1| High performance equipment that offers fast and accurate measurements. Precision balance with a readability of 0.00001g in the range 0-50g, and 0.0001g in the range 50-200g
- 2| With RS232 output to connect the balance to a printer, computer or other external device. Easy to use and read thanks to a backlit LCD display.
- 3| Electromagnetic force compensation technology
- 4| Aluminum housing and stainless steel plate
- 5| Glass urn with sliding side and top doors
- 6| Height adjustable threaded feet and visible level bubble for correct leveling
- 7| External calibration; external calibration weight included (200g)
- 8| Tare over the entire weighing range
- 9| Selectable measurement units: g, ct, oz, lb, ozt, dwt, GN
- 10| Percentage determination function
- 11| Overload protection
- 12| Part Count Mode



balances icons - series 5135



Code	KBK001
Max capacity (g)	200
Capacity mín (g)	0.001
Readability (g)	0.00001
Repetitibilidad (g)	± 0,00003
Linearity (g)	± 0,0002
Calibration weight (g)	200 (included)
Stabilization time	3-7 seg
Pan size	90 mm
Total dimensions	460x205x280 mm
Power	220V 50/60Hz



KBN - Weighting accesories

▶ Watch glass, ground edge



Code	Diameter (mm)
KBN001	45
KBN002	50
KBN003	60
KBN004	70
KBN005	80
KBN006	90
KBN007	100
KBN008	120
KBN009	150
KBN010	180

▶ Watch glass, burnt edge



Code	Diameter (mm)
KBN011	40
KBN012	50
KBN013	60
KBN014	70
KBN015	80
KBN016	100
KBN017	120
KBN018	140
KBN019	160
KBN059	200

▶ Watch glasses, PP



Kartell

1 | Equipped with a support base that prevents it from turning.

Code	Diameter (mm)
KBN030	60
KBN031	75
KBN032	100
KBN033	125

▶ Watch glasses, PTFE



Kartell

1 | Watch glasses PTFE

Code	Diameter (mm)
KBN034	52
KBN035	76
KBN036	99
KBN037	126
KBN038	153

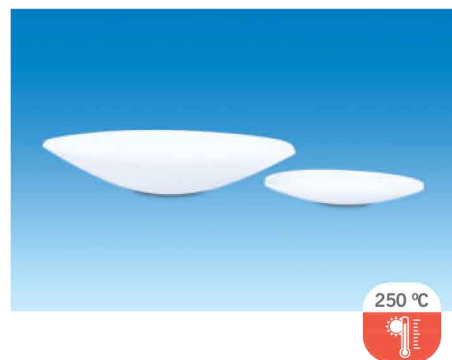


KBN - Weighting accessories

▶ Watch glass, PTFE

VITLAB

Code	Diameter (mm)
KBN503	50
KBN501	75
KBN502	100
KBN519	125



▶ Weighing bottles

Kartell

- 1 | Lightweight, autoclavable and reusable Air-tight pressure lid.
- 2 | Optimal resistance to acids.



Code	Capacity	Dim. (ØxH)	Tara (g)
KBN023	23 mL	30x48 mm	8
KBN024	20 mL	40x29 mm	8
KBN025	60 mL	40x69 mm	14
KBN026	30 mL	49x29 mm	10
KBN027	50 mL	59x34 mm	18
KBN028	190 mL	59x88 mm	28
KBN029	360 mL	70x118 mm	40

VITLAB

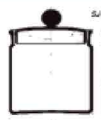


Code	Capacity	Dimensions
KBN515	65 mL	60 x 40 mm
KBN516	50 mL	30 x 50 mm
KBN517	65 mL	35 x 60 mm
KBN518	200 mL	90 x 60 mm



DIMENSIONS - weighting bottles

SJ: frosted
d: diameter
h: height



Code	Capacity	Dim. (dxh)	SJ
KBN052*	20 mL	50x30 mm	45/12
KBN054*	90 mL	80x40 mm	71/12
KBN058*	8 mL	24x40 mm	19/12

*these items are supplied on request





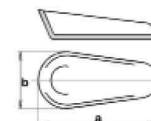
KBN - Weighting accessories

▶ Weighting boat



DIMENSIONS - Weighting boat

b: height
a: length



Code	a x b
KBN020	37/17 mm
KBN021	53/23 mm
KBN022	64/29 mm

▶ Balance boats



Kartell

Code	Type	Cap. (mL)	Colour	Dimensions (mm)	Pack
KBN039	Square	7	White	43x43x8	1000
KBN040	Square	100	White	78.5x78.5x23	1000
KBN041	Square	250	White	134x134x23	1000
KBN042	Rhomboidal	5	White	31x53x5.3	1000
KBN043	Rhomboidal	5	Black	31x55x4.6	1000
KBN044	Rhomboidal	30	White	56x85x14.5	500
KBN045*	Rhomboidal	30	Black	56x85x14.5	500
KBN046	Rhomboidal	100	White	96x134.5x18.5	250
KBN047	Rhomboidal	100	Black	96x134.5x18.5	250

*these items are supplied on request



KBP - Spring balances

▶ Plastic



Code	Range	Sensibility
KBP003	250 g / 2.5 N	5 g / 0.05 N
KBP004	500 g / 5 N	10 g / 0.1 N
KBP005	1000 g / 10 N	20 g / 0.2 N
KBP006	2000 g / 20 N	50 g / 0.5 N
KBP007	3000 g / 30 N	50 g / 0.5 N
KBP008	5000 g / 50 N	100 g / 1 N



KBQ - Mechanical balances

▶ Roberval series 5001



- 1| Oven-painted steel with treated steel blades and agate bearings
- 2| Frontal scale for additions from 5g to 50g (depending on model). Weight set included.

Code	KBQ003	KBQ004
Capacity (g)	1000	2000
Readability (g)	1	2
Range scale (g)	0-10	*
Scale division (g)	1	-
Pan size (mm)	Ø 134	Ø 170
Dimensions (cm)	35x14x20	40x18x30

* Without frontal scale



KBQ - Mechanical balances

▶ Equal-arm balance



- 1 | Weighing system in steel with treated steel blades and blocking system.
- 2 | Removable for storage (wooden box included).
- 3 | Includes a complete set of weights.

Code	KBQ005
Capacity (g)	100
Sensibility (g)	0.02
Pan size (mm)	Ø 80
Dimensions (mm)	300x160x80



▶ Monoplate balance 4 beams



- 1 | Light metal casting, with agate bearings and hardened steel blades.
- 2 | It has 4 arms with sliding weights of 100g, 10g, 1g and 0.1g
- 3 | With platform for hydrostatic weighing. With magnetic cushioning

Code	KBQ006
Capacity (g)	311
Sensibility (g)	0.01
1a beam	1g divided each 0.01g
2a beam	10g divided each 1g
3a beam	100g divided each 10g
4a beam	200g divided each 100g
Pan size (mm)	Ø100
Dimensions (mm)	420x180x360



▶ Monoplate balance 3 beams



- 1 | Light metal casting, with agate bearings and hardened steel blades.
- 2 | It has 3 arms with sliding weights.
- 3 | Incorporates a support for additional weights supplied with the equipment:
 - 2 weights of 295g that increase the capacity by 1000g.
 - 1 weight of 147.5g that increases in 500g the capacity.
- 4 | With magnetic cushioning

Code	KBQ007
Capacity (g)	610 2610, with additional weights
Sensibility (g)	0.1
1a beam	10g divided each 0.1g
2a beam	500g divided each 100g
3a beam	100g divided each 10g
Pan size (mm)	150 mm
Dimensions (mm)	420x180x360



KBR - Mechanical, set of weights



- 1 | Made of A3 class M2 steel
- 2 | Usually used with mechanical scales.
- 3 | Supplied in a case.

Code	KBR001
Description	Set of weights de 200g
Composed of	1 weight of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g 1 weight of 5g 1 clamp





KBR - Mechanical, set of weights



Code	KBR002
Description	Set of weights de 500g
Composed of	1 weight of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g 1 clamp



Code	KBR003
Description	Set of weights de 1000g
Composed of	1 weight of 500g 1 weight of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g



Code	KBR004
Description	Set of weights de 2000g
Composed of	1 weight of 1kg 1 weight of 500g 1 weights of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g



KBS - Weights E2



Certification "Enac" for weights E2

Code	KBS016
Description	For E2 weights from 1 mg to 500 g

- 1 | High-precision test and adjustment weights for high-resolution analytical balances in verification class I with a maximum resolution of more than 100,000 d.
- 2 | Made of non-magnetic stainless steel
- 3 | Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBS002	1 g	± 0.03
KBS003	2 g	± 0.04
KBS004	5 g	± 0.05
KBS005	10 g	± 0.06
KBS006	20 g	± 0.08
KBS007	50 g	± 0.10
KBS008	100 g	± 0.15
KBS009	200 g	± 0.30
KBS010	500 g	± 0.75
KBS011	1 Kg	± 1.50
KBS012	2 Kg	± 3.00
KBS013	5 Kg	± 7.50
KBS014	10 Kg	± 15.00
KBS015	20 Kg	± 30.00
KBS001	Set 12 fractions E2 of 500mg to 1mg**	-----

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.



KBT - Weights F1



- 1 | High-precision weights indicated for control, calibration and adjustment of analytical balances in verification class I, with a maximum resolution of approximately 100,000 d
- 2 | Made of stainless steel.
- 3 | Supplied with individual storage box.

Certification "Enac" for weights F1

Code	KBT016
Description	For weights F1 from 1 mg to 10 kg



Code	Weight (nominal value)	Tolerance (mg)
KBT002	1 g	± 0.10
KBT003	2 g	± 0.12
KBT004	5 g	± 0.15
KBT005	10 g	± 0.20
KBT006	20 g	± 0.25
KBT007	50 g	± 0.30
KBT008	100 g	± 0.50
KBT009	200 g	± 1.00
KBT010	500 g	± 2.50
KBT011	1 Kg	± 5.00
KBT012	2 Kg	± 10.00
KBT013	5 Kg	± 25.00
KBT014	10 Kg	± 50.00
KBT015	20 Kg	± 100.00
KBT001	Set 12 fractions F1 from 500 mg to 1mg** -----	

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.

KBV - Weights F2



- 1 | High-precision weights suitable for high-precision scales in verification class II, with a maximum resolution of up to approx. 50,000 d
- 2 | Made of stainless steel.
- 3 | Supplied with individual storage box.

Certification "Enac" for weights F2

Code	KBV016
Description	For weights F2, from 1 mg to 10 kg



Code	Weight (nominal value)	Tolerance (mg)
KBV002	1 g	± 0.3
KBV003	2 g	± 0.4
KBV004	5 g	± 0.5
KBV005	10 g	± 0.6
KBV006	20 g	± 0.8
KBV007	50 g	± 1.0
KBV008	100 g	± 1.5
KBV009	200 g	± 3.0
KBV010	500 g	± 7.5
KBV011	1 Kg	± 15.0
KBV012	2 Kg	± 30.0
KBV013	5 Kg	± 75.0
KBV014	10 Kg	± 150.0
KBV015	20 Kg	± 300.0
KBV001	Set 12 fractions F2 from 500 mg to 1mg -----	

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.



KBW - Weights M1



- 1 | Precision weights for commercial and industrial scales in verification class III, with a maximum resolution of up to 10,000 d.
- 2 | Made of A3 steel
- 3 | Supplied with individual storage box.

Certification "Enac" for weights M1

Code	KBW019
Description	For weights M1, from 1 mg to 10 kg

Code	Weight (nominal value)	Tolerance (mg)
KBW001	Set 12 fractions M1 of 500mg to 1mg**	-----
KBW002	1 g	± 1.0
KBW003	2 g	± 1.2
KBW004	5 g	± 1.5
KBW005	10 g	± 2.0
KBW006	20 g	± 2.5
KBW007	50 g	± 3.0
KBW008	100 g	± 5.0
KBW009	200 g	± 10.0
KBW010	500 g	± 25.0
KBW011	1 Kg	± 50.0
KBW012	2 Kg	± 100.0
KBW013	5 Kg	± 250.0
KBW015	10 Kg	± 500.0
KBW017	20 Kg	± 1000.0

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.

Block Weight class M1



- 1 | According to OIML-R111.
- 2 | Made of painted cast iron.
- 3 | Density 7.2g/cm³.

Code	Weight (nominal value)	Tolerance (mg)
KBW014	5 Kg	±250
KBW016	10 Kg	±500
KBW018	20 Kg	±1000



KDB - Testers

Mini pH-tester



- 1 | Ideal for laboratory and field practice. With two-point calibration.

Code	KDB003
Range	0-14 pH
Resolution	0.01 pH
Accuracy	± 0.05 pH
CAT	0-60 °C
Plat. dimensions (mm)	150x29x15
Power	4 batteries x 1.5V



KDB - Testers

▶ pH pocket tester, Premium series



- 1 | Parameters: pH, ORP, Temperature. With different types of replaceable and interchangeable electrodes. With automatic temperature compensation.
- 2 | Triple colour backlit display with indicative icons. IP67 water and dust resistant. Compatible probes: KDG014 (bulb glass), KDG015 (flat), KDG016 (spear).

Code	KDB004	KDB005	KDB006
Parameter	pH/ORP/°C	pH/ORP/°C	pH/ORP/°C
pH			
Range	-2.00-16.00 pH	-2.00-16.00 pH	-2.00-16.00 pH
Resolution / Accuracy	0.01 pH / ± 0.01	0.01 pH / ± 0.01	0.01 pH / ± 0.01
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
ORP			
Range	± 1000 mV	± 1000 mV	± 1000 mV
Accuracy	$\pm 0.2\%Fs$	$\pm 0.2\%Fs$	$\pm 0.2\%Fs$
Temperature	0-50°C	0-50°C	0-50°C
Electrode	Bulb glass	Flat	Spear



▶ pH pocket tester, Smart series



- 1 | New generation smart analysers, the Smart Series enables recording of measured parameters on mobile devices (Android or iOS) using the ZenTest application via Bluetooth 5.0.
- 2 | Compatible probes: KDG017 (bulb glass), KDG018 (flat), KDG019 (spear) and KDG044* (ORP electrode).

Code	KDB007	KDB008	KDB009
Parameter	pH/ORP/°C	pH/ORP/°C	pH/ORP/°C
pH			
Range	-2.00-16.00 pH	-2.00-16.00 pH	-2.00-16.00 pH
Resolution / Accuracy	0.01 pH / ± 0.01	0.01 pH / ± 0.01	0.01 pH / ± 0.01
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
ORP			
Range	± 1000 mV	± 1000 mV	± 1000 mV
Accuracy	$\pm 0.2\%Fs$	$\pm 0.2\%Fs$	$\pm 0.2\%Fs$
Temperature	0-50°C	0-50°C	0-50°C
Electrode	Bulb glass	Flat	Spear





KDD - laboratory pH-meters

Digital pH-meter models 903 y 907



CODE- KDD002



CODE- KDD006



- 1 | Large backlit LCD display for easy understanding and reading.
- 2 | Temperature-compensated pH and electrical potential (mV) measurement parameters.
- 3 | 1 or 2 point calibration with automatic detection of the standard solution.
- 4 | Automatic temperature compensation by keyboard (903) or probe (907).
- 5 | Suitable for the use of ion-selective electrodes.
- 6 | Articulated support integrated in the equipment.
- 7 | RS232 output and software for data transmission (907).

Code	KDD002	KDD006
Model	903	907
Measure range		
pH	0-14.0 pH	-2.00-18.00 pH
mV	±1999 mV	±1999 mV
T	---	0/100 °C (probe included)
Resolution	0.01 pH - 1 mV	0.01 pH - 1 mV - 0.1 °C
Accuracy		
pH	±0.02 pH ± 1bit	±0.02 pH ± 1 bit
mV	±1 mV ± 1bit	±1 mV ± 1bit
T	---	±0.5°C ± 1 bit (0.0-60.0°C) ±1.0°C ± 1 bit (60.0-100.0°C)
Range CAT	0-60 °C (±0.01 pH)	0-100 °C (±0.01 pH)
Stability	± 0.01 pH ± 1 bit/3 h	± 0.01 pH ± 1 bit/3 h
Dimensions	290x210x95 mm	290x200x70 mm
Power	CA (220±22)V / (50±1) Hz	220VAC/9V

pH-meter and moisture tester for soil



- 1 | Portable and resistant for use in agriculture and gardening.
- 2 | Sensor integrated in the conical end.
- 3 | No power required.

Code	KDD004
Range pH	3-8 pH
Humidity Range (%)	1-8 (10-80%)
Resolution pH - %	0.2 pH - 10%
Probe	Fija (30cm)
Dimensions (mm)	410x50

Portable pH-meter, 850 series



- 1 | Supplied with pH combination electrodes with integrated temperature probe. Automatic temperature compensation (electrode KDG021).
- 2 | Large LCD display with automatic locking and shut-off.

Code	KDD007
Model	pH850
Parameters	pH/mV/Temp
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Temperature	0 – 100°C



KDD - laboratory pH-meters

Benchtop meters, 700 series



- 1| Equipped with long-lasting 3-in-1 pH combination electrode and conductivity combination electrode, with integrated temperature probe
- 2| Automatic recognition of 6 types of pH standard solutions. Electrode: KDG021

Code	KDD008
Model	pH700
Parameters	pH/mV/°C
pH	
Range	0 – 14 pH
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100°C



Benchtop meters, 820 series



- 1| They are supplied with a long-life premium glass pH electrode and a brush-resistant plat num back (BPB) conductivity and temperature combination electrode.
- 2| Their intelligent processor automatically recognises up to 15 types of pH buffer solutions and up to 8 types of conductivity standard solutions. BNC connector for pH electrode and RCA for temperature.

Compatible electrodes: KDG022 (pH routine electrode) and KDG039 (Temperature probe).

Code	KDD009
Model	pH820
Parameters	pH/mV/°C
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Accuracy	±0.002 pH ± 1 digit
Stabilité	±0.002 pH ± 1 digit/3hours
Temp. compensation	0-100°C
Calibration	1 to 5 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100°C



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KDG - Electrodes and accessories



Code. - KDG014
Bulb glass



Code. - KDG015
Flat



Code - KDG016
Spear



Code - KDG017
Bulb glass



Code - KDG018
Flat



Code - KDG019
Spear

Code	Description	Type	Model	
			Premium	Smart
KDG014	pH analysis for regular water solutions	Bulb glass	●	
KDG015	pH analysis for surfaces and micro-samples	Flat	●	
KDG016	pH analysis for solids and semi-solids	Spear	●	
KDG017	pH analysis for regular water solutions	Bulb glass		●
KDG018	pH analysis for surfaces and micro-samples	Flat		●
KDG019	pH analysis for solids and semi-solids	Spear		●



KDG - Electrodes and accessories

▶ LabSen ELECTRODES FOR pH



- 1| pH probe connector, BNC type. Temperature probe connector, RCA type
2| Compatible with all Apera portable and benchtop pH analysers.



Code	KDG020	KDG021	KDG022	KDG023
Model	201-C	201T-F	211	211
Range	0-14 pH	0-14 pH	0-14 pH	0-14 pH
Body	PC	PC	Glass	Glass
Membrane	Glass, spherical	Glass, spherical	Glass, hemispherical	Glass, hemispherical
Probe temp	No	NTC 30KΩ	No	No
Junction	Ceramic	Ceramic	Ceramic	Ceramic
Dimen. (øxL)	12x160 mm	12x160 mm	12x120 mm	12x130 mm



Code	KDG024	KDG025	KDG026	KDG027
Model	331	241-6	241-3	251
Range	0-14 pH	0-14 pH	0-14 pH	0-14 pH
Body	POM	Glass	Glass	Glass
Probe temp	No	Sonda	Sonda	No
Membrane	Bulb glass	Glass, thin	Glass, very thin	Glass, spear
Junction	1 pore	Ceramic	Ceramic	Ceramic
Dimen. (øxL)	12x120 mm	12-6x150 mm	12-3x150 mm	12-6x100 mm



Code	KDG028	KDG029	KDG030	KDG031
Model	221	223	333	803
Range	0 – 14 pH	0-14 pH	0-14pH	1-11 pH
Body	Glass	Glass	POM	Glass
Probe temp	NTC 30kΩ	NTC 30kΩ	NTC 30kΩ	NTC 30kΩ
Membrane	Glass, cilindrical	Glass, cilindrical	Glass, spherical	Glass, cilindrical
Junction	Ceramic	Ceramic	Polimer	Ceramic
Dimen. (øxL)	12x 120	12x130 mm	12x120 mm	12x130 mm



Code	KDG032	KDG033	KDG034	KDG035
Model	831	841	851-1	823
Range	0-11 pH	2-14 pH	0-14 pH	0-14 pH
Body	Glass	Glass	Glass	Glass
Probe temp	No	No	No	NTC 30kΩ
Membrane	Glass, hemispherical	Glass, hemispherical	Glass, hemispherical	Glass, hemispherical
Junction	Ceramic	Movable	Ceramic*3	Ceramic*3
Dimen. (mm)	12x120 mm	12x120 mm	12x120 mm	



Code	KDG037	KDG038
Model	301Pt-C	3501Pt-Glass
Range	± 2000 mV	± 2000 mV
Body	PC	Glass
Sensor	Platinum ring	Platinum ring
Junction	Ceramic	Ceramic
T.sensor (mm)	Ø6 x 2.5	Ø 6 x 5



KDJ - Paper pH

► Universal

1 | With colour scale indicating approximate pH value.



Code	Range pH	Scale	Format
KDJ002	0-10	1	Box 200 strips
KDJ003	0-10	1	Roll 5 meters
KDJ005	1-14	1	Box 200 strips
KDJ007	1-14	1	Box 80 strips
KDJ006	1-14	1	Roll 5 meters



KGB - Pocket tester

► Pocket conductimeter tester, premium series



1 | Automatic recognition of 5 types of buffer solutions. Triple-colour backlit display with icons indicator. Compatible probe: KGG007

Code	KGB011
Parameters	EC/ °C
Conductivity	
Range	0-200.0 $\mu\text{S}/\text{cm}$; 0-2000 $\mu\text{S}/\text{cm}$ 0-20.00 mS/cm ; 0-50.0°C
Resolution / Accuracy	0.1/1 μS , 0.01 mS / $\pm 1\% \text{Fs}$
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt



► Pocket conductimeter tester, smart series



1 | Step-by-step operation guide, calibration reminders, self-diagnostics, measurement Calibration status and electrode status message. Compatible probe: KGG008

Code	KGB012
Parameters	EC/ °C
Conductivity	
Range	0-200.0 $\mu\text{S}/\text{cm}$; 0-2000 $\mu\text{S}/\text{cm}$ 0-20.00 mS/cm ; 0-50.0°C
Resolution / Accuracy	0.1/1 μS , 0.01 mS / $\pm 1\% \text{Fs}$
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt



KGD - Laboratory conductivity-meters

► Portable conductivity meter 910/3



1 | Backlit LCD display and membrane keypad. Automatic Temperature Compensation (CAT) by entering data through the keyboard.

2 | Modifiable cell constant for values of 0.01, 1 and 10 cm^{-1} . Supplied with platinum conductivity cell ($K=1 \text{ cm}^{-1}$).

Code	KGD001
Conductivity	
Range	0.00-19.99 $\mu\text{S}/\text{cm}$; 20.0-199.9 $\mu\text{S}/\text{cm}$; 200-1999 $\mu\text{S}/\text{cm}$; 2000-19000 $\mu\text{S}/\text{cm}$; 20.0-100.0 mS/cm
Resolution	0.01 $\mu\text{S}/\text{cm}$; 0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.1 mS/cm
Accuracy (± 1 digit)	$\pm 1.5\%$
Range CAT	15-35 °C (Entering data via keyboard)
Temp coefficient	2 % / °C (fix)
Referral temp	25 °C
Dimensions	170x80x35 mm
Power	2 batteries 1.5V, type AA





KGB - Pocket tester

▶ Portable conductivity meter 910/5



- 1 | Determination of conductivity, total dissolved solids (TDS) and salinity parameters
- 2 | Backlit LCD display and splash and moisture resistant membrane keypad
- 3 | Automatic temperature compensation (CAT) with built-in temperature probe.
- 4 | Modifiable cell constant for values of 0.01, 0.1, 1, 5 and 10 cm-1
- 5 | Supplied with platinum conductivity cell (K=1 cm-1).
- 6 | RS232 output for connection to PC or printer.

Code	KGD002
Conductivity	
Range	0.00-19.99 $\mu\text{S/cm}$; 20.0-199.9 $\mu\text{S/cm}$; 200-1999 $\mu\text{S/cm}$; 2.00-19.99 $\mu\text{S/cm}$; 20.0-199.9 mS/cm
Resolution	0.01 $\mu\text{S/cm}$; 0.1 $\mu\text{S/cm}$; 1 $\mu\text{S/cm}$; 0.01 $\mu\text{S/cm}$; 0.1 mS/cm
Accuracy (± 1 digit)	$\pm 1.5 \%$
Salinity	
Range	0.00-8.00 $\%$
Resolution	0.01 $\%$
Accuracy (± 1 digit)	$\pm 0.3 \%$
Range de T	0.0-40.0 $^{\circ}\text{C}$
Temp coefficient	0-4 $\%/^{\circ}\text{C}$ (by default 2 $\%/^{\circ}\text{C}$)
Referral temp	25 $^{\circ}\text{C}$ (conductivity and TDS) y 18 $^{\circ}\text{C}$ (salinity)
Conversion ratio TDS	0.40-1.00 (by default 0.50)
Dimensions	210x100x45 mm
Power	4 batteries 1.5V (AA)

▶ Laboratory conductivity meter 910/9



- 1 | Determination of conductivity, resistivity, TDS, salinity and temperature
- 2 | Large backlit LCD display with membrane keyboard.
- 3 | Automatic temperature compensation (CAT) by keypad or by built-in temperature probe.
- 4 | Modifiable cell constant for values of 0.01, 0.1, 1, 5 and 10 cm-1
- 5 | Supplied with platinum conductivity cell (K=1 cm-1).
- 6 | Use according to GLP standards.
- 7 | USB output for connection to the computer by means of communication software.

Code	KGD003
Measure range	
Conductivity	0.000 $\mu\text{S/cm}$ – 199.9 mS/cm^*
Resistivity	5.00 $\Omega \cdot \text{cm}$ – 20.00 $\text{M}\Omega \cdot \text{cm}$
TDS	0.000 mg/L – 99.9 g/L
Salinity	(0.00-8.00) $\%$
Temperature	(-5.0 – 110.0) $^{\circ}\text{C}$
Electrical unit accuracy	
Conductivity	$\pm 0.5\% \text{ FS}$
Resistividad	$\pm 0.5\% \text{ FS}$
TDS	$\pm 0.5\% \text{ FS}$
Salinity	$\pm 0.1\%$
Temperature	$\pm 0.2^{\circ}\text{C}$
Temp compensation	Auto/Manual: -5.0 – 50.0 $^{\circ}\text{C}$
Stability	$\pm 0.3\% \text{ FS/3h}$
Temp coefficient	Adjustable
Norm GLP	Yes
Output	USB port
Working conditions	0-40 $^{\circ}\text{C}$, $\leq 85\% \text{ HR}$
Power	Adaptador 100-240 V / 9 V DC
Dimensions	280x215x92 mm

* automatic change of range and frequency

KGD - Laboratory conductivity-meters

850 Series



- 1 | Supplied with combined conductivity electrodes with integrated temperature probe.
- 2 | Automatic temperature compensation
- 2 | Large LCD display with automatic locking and shutdown
- 3 | Compatible probes: KZD026 (Conductivity electrode with temperature probe (k=1), 2301T-S)

Code	KGD004
Model	EC850
Parameters	Cond/TDS/Temp
Conductivity	
Range	0 – 19.99 $\mu\text{S/cm}$; 20.0 – 199.9 $\mu\text{S/cm}$ 200-1999 $\mu\text{S/cm}$; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μS , 0.01/0.1 mS
Accuracy	$\pm 1.0\%$ FS ± 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



700 Series



- 1 | Equipped with a combined conductivity electrode with integrated temperature probe.
- 2 | Automatic detection of 8 types of conductivity
- 3 | Automatic calibration mode, calibration guide and automatic verification.
- 4 | Automatic temperature compensation, 50 data storage groups.
- 5 | Electrode support arm and calibration standard solutions included.
- 6 | IP54 protection rating. BNC connector for conductivity and RCA for temperature probe.

Code	KGD005
Model	EC700
Parameters	Cond./°C
Conductivity	
Range	0 – 19.99 $\mu\text{S/cm}$; 20.0 – 199.9 $\mu\text{S/cm}$ 200-1999 $\mu\text{S/cm}$; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μS , 0.01/0.1 mS
Accuracy	$\pm 1.0\%$ FS ± 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



820 Series



- 1 | Fast conductivity readings with maximum accuracy ($\pm 0.5\%$ FS conductivity).
- 2 | Large LCD display with simultaneous display of pH/Cond and temperature, icons for stable readings and calibration completion.
- 3 | Storage of 500/1000 data sets for Good Laboratory Practice (GLP).
- 4 | USB data output, cable and 820 Series PC-link software (Windows only) included.
- 5 | Combined conductivity (BPB) and temperature electrode.
- 6 | Flexible 3-electrode holder included.
- 7 | Calibration solutions for conductivity (84 $\mu\text{S/cm}$, 1413 $\mu\text{S/cm}$, 12.88 mS/cm).
- 8 | Dust and splash protection rating IP54.

Code	KGD006
Model	EC820
Parameters	Cond/TDS/Sal/°C
Conductivity	
Range	0 – 19.99 $\mu\text{S/cm}$; 20.0 – 199.9 $\mu\text{S/cm}$ 200-1999 $\mu\text{S/cm}$; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μS , 0.01/0.1 mS
Accuracy	$\pm 0.5\%$ FS ± 1 digit
Constant electrode	0.01/0.1/1.0/10.0 cm-1
Compensation temp.	0 – 50°C
Calibration	1 to 4 points, automatic
Temperature	-10 – 110°C





KGD - Laboratory conductivity-meters

▶ Conductivity meter "CD-2004"



- 1 | Conductivity, TDS and salinity reading.
- 2 | Automatic temperature compensation.
- 3 | Calibration with conductivity TDS and salinity standards.



Conductivity and Temperature Cell (not included)

Code	KGD502
Description	Conductivity cell with epoxy body. Temperature probe Rt-2252. Connectors with IP65 protection

Code	KGD501
Conductivity	
Range	0.00-19.99 $\mu\text{S/cm}$; 20.0-199.9 $\mu\text{S/cm}$; 200-1999 $\mu\text{S/cm}$; 2000-19000 $\mu\text{S/cm}$; 20.0-100.0 mS/cm
TDS	0,00 a 10,00 mg/L; 10,00 to 100,0 mg/L; 100,0 to 1000 mg/L; 1,000 a 10,00 g/L; 10,00 to 19,99 g/L
Salinity range	0,00 a 8,00
Temperature range	0,0 a 40,0 $^{\circ}\text{C}$
Accuracy	25 $^{\circ}\text{C}$
Conductivity	1,5% Scale fund
Salinity	0,20%
Temperature	0,3 $^{\circ}\text{C}$

▶ Multi-Parameter counter "MP-2006"



- 1 | 5.7 inch touch screen.
- 2 | Capacity to store up to 2200 data sets. GLP method.
- 3 | Ability to store, print and delete measurement data.
- 4 | USB and RS-232 ports for PC connection.
- 5 | Continuous, delay and balance measurement



Code	KGD504
pH	
Range	-2 a +19,999
Accuracy	$\pm 0,002$ FS
Resolution	0,001
ORP	
Range	$\pm 1999,99$ mV
Accuracy	$\pm 0,03$ FS
Resolution	0,01 mV
Conductivity	
Range	0,001 μS a +199,9mS
Accuracy	$\pm 0,5$ FS
Resolution	0,001 μS
TDS	
Range	0,000 mg/L a 19.99g/L
Accuracy	$\pm 0,5$ FS
Resolution	0,001 mg/L
Salinity	
Range	(0,0 a 8,00)%
Accuracy	$\pm 0,1\%$
Resolution	0,1%
Disolved oxigen	
Range	0,00 a 19.99 mg/L
Accuracy	$\pm 0,5$ mg/L
Resolution	0,01 mg/L
Temperature	
Range	-0,5 a +135
Accuracy	$\pm 0,5$ FS
Resolution	0,1
Dimensions	290X200X70 mm
Power	230V/50-60Hz



KGD - Laboratory conductivity-meters

Conductivity meter "CD-2005"



- 1 | Conductivity reading, TDS. Automatic or manual temperature compensation with fixed coefficient of 2%. Calibration with TDS conductivity and salinity standards.
- 2 | RS-232 output for reading and printing parameters by computer.
- 3 | Adjustment of the probe constant. Input for Temperature probe Rt-2252

Code	KGD503
Conductivity	
Range	0-20.00 $\mu\text{S/cm}$; 0-200.0 $\mu\text{S/cm}$; 0-2000 $\mu\text{S/cm}$; 0-10.0 mS/cm
Accuracy	(± 1 digit) $\pm 1.5\%$
Escalas de TDS:	de 0 a 1000 mg/L.
Temperature range	0 a 60 $^{\circ}\text{C}$.
Dimensions	300x200x72 mm
Weight	0,5 Kg



KGG - Conductivity cells

- 1 | Glass body resistant to corrosion and organic solvents. With 2 platinum electrodes BNC connector with fixed cable of 60 cm length.

	KGG001	Conductivity cell K=0.1	
		Constant	Measured range
		$0.1 \pm 0.02 \text{ cm}^{-1}$	$0.1 \mu\text{S} - 300 \text{ mS/cm}$
	KGG002	Conductivity cell K= 0.1, CAT	
		Constant	Measured range
		$0.1 \pm 0.02 \text{ cm}^{-1}$	$0.1 \mu\text{S} - 300 \text{ mS/cm}$
	KGG004	Conductivity cell K=1, CAT	
		Constant	Measured range
		$1 \pm 0.2 \text{ cm}^{-1}$	$1 \mu\text{S} - 100 \text{ mS/cm}$
	KGG005	Conductivity cell K=10	
		Constant	Measured range
		$10 \pm 2 \text{ cm}^{-1}$	$300 \mu\text{S} - 1000 \text{ mS/cm}$

KJB - Solid stem

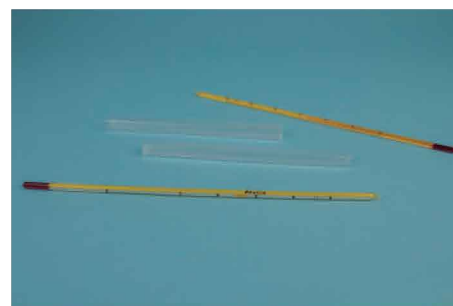
Solid stem



- 1 | Brown graduation resistant to the action of physical-chemical agents. Filled with non-contaminating or dangerous coloured organic liquid. Ring to suspend the thermometer. Supplied in individual protective plastic case.

Code	Range	Divisions	Length
KJB003	-10 / 50 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	30 cm
KJB004	-10 / 110 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	30 cm
KJB009	-10 / 250 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB010	-10 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB011	-10 / 110 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB012	-10 / 150 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB013	-10 / 200 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB014	-10 / 250 $^{\circ}\text{C}$	2 $^{\circ}\text{C}$	30 cm
KJB017*	-10 / 50 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$	55 cm
KJB018	-10 / 50 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	55 cm
KJB019	-10 / 110 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$	55 cm
KJB020	-10 / 110 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	55 cm
KJB021	-50 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB022	-100 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB023	- 20 / 150	2 $^{\circ}\text{C}$	30 cm

* without a glass ring





KJD - Enclosed scale

Coloured spirit filled



- 1 | Internal scale graduated in black. Ring to suspend the thermometer.
- 2 | Filled with non-contaminating or dangerous coloured organic liquid. Supplied in individual protective plastic case.

Code	Range	Divisions	Lenght
KJD001	-10/50 °C	0.5 °C	30 cm
KJD002	-10/110 °C	0.5 °C	30 cm
KJD005	-10/50 °C	1 °C	30 cm
KJD006	-10/110 °C	1 °C	30 cm
KJD007	-10/150 °C	1 °C	30 cm
KJD008	-10/200 °C	1 °C	30 cm
KJD009	-10/250 °C	2 °C	30 cm



KJG - Contact

Electric contact thermometers



Code	Range °C	Division scale °C	Immersion length cm	Total length cm
KJG501	0 +100	1/1	15	39
KJG502	0 +200	2/1	15	39
KJG503	0 +300	5/1	15	39



KJJ - With metal probe

Digital thermometer



- 1 | LCD display for comfortable and quick reading of data.
- 2 | Default alarm temperature. Timer up to 20 hours.

Code	KJJ001
Functions	Stopwatch, alarm
Range	50/300 °C - 122/572°F
Resolution	1 °C - 1 °F
Probe	60 mm, with 1 m wire
Power	1 battery 1.5V (AAA)

* this item is available until end of stock

Digital



- 1 | Temperature measurement in solids and semi-solids (foodstuffs, soils, etc.)
- 2 | LCD display for comfortable and quick data reading.
- 3 | Penetration probe made of stainless steel, fixed or with cable.

Code	KJJ004
Functions	Max/min memory
Range	-50/300°C - 58/572°F
Resolution	0.1 °C - 0.1 °F
Probe	150 mm, fix
Power	1 button cell 1.5V (AG13)

KJJ - With metal probe

Electronic contact thermometer "Sensoterm II"



- Advantages include a separate temperature probe that maintain the main body away from steam and other vapours.
- Safer than a glass contact thermometer, eliminating the risk of broken it and a mercury spillage. Main body made of ABS plastic.

Code	KJJ502
Temp range	-50 °C to 300 °C.
Temperature probe	3,5 mm Ø x 250 mm immersion.
Temperature Display	8 mm high LCD display
Ambient working range	0 to 60 °C and a relative humidity of 80 %.
Dimensions	130x70x24
Weight	0,25 Kg



KJM - Room temperature

Digital



- Temperature (T) and relative humidity (RH) recording (except KJM016).
 - With clock function and maximum and minimum recording.
 - Models with probe can be useful to record Temperature of refrigerators or freezers.
- Power 1 1.5V battery (AAA)

Code	R.T ^a interior	R.T ^a exterior	R.HR	Resolution	Accuracy
KJM016	-10/50°C 14/122°F	-40/70°C -40/158°F	-	0.1 °C 0.1 °F	±1 °C ±2 °F
KJM017	-0/50°C 32/122°F	-40/70°C -40/158°F	10%-99%	0.1 °C 0.1 °F 1 %HR	±1 °C ±2 °F ±5 %HR
KJM023	-10/50°C 14/122°F	-50/70°C -58/158°F	10%-99%	0.1 °C 0.1 °F 1 %HR	±1 °C ±2 °F ±5 %HR

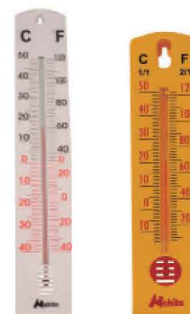


Plastic



Code	Range	Resolution	Dimensions
KJM006	-40/50 °C -40/120 °F	1 °C 2 °F	400x65 mm
KJM015	-15/50 °C 8/120 °F	1° C 2 °F	200x45 mm

CODE: KJM006



CODE: KJM015

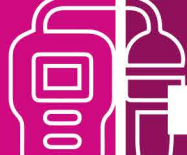
Relative humidity thermometer (Psychrometer)



- Made of plastic with protective canopy for outdoors.
- With double wet-bulb and dry-bulb thermometer. Built-in correlation table to extrapolate relative humidity reading.

Code	Range	Resolution	Dimensions
KJM014	-10/50 °C	1 °C	300x75 mm





KJM - Room temperature

▶ Maximum-minimum thermometers



CODE: KJM019



CODE: KJM020

Code	Range	Resolution	Length	Width
KJM019	-10/50 °C	1 °C	240 mm	64x11 mm
KJM020	-10/50 °C	1 °C	240 mm	64x11 mm



KJP - For refrigerators

▶ Low temperatures



1 | Filled with colored organic liquid..



Code	Description	Range	Divi.
KJP001	Solid steam, 150 mm	-40/40 °C	1 °C
KJP005	With hook, 210 mm	-40/45 °C	1 °C



KJR - Others

▶ Thermometer with ring



- 1 | With a ring to suspend the thermometer.
- 2 | Non-polluting or dangerous coloured organic liquid.



Code	Range	Resolution
KJR002	0/50 °C	1 °C



KJR - Others

Thermometer for wine



- 1 | Wooden head that allows it to be attached to the bottle mouth.
- 2 | Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR003	0/40 °C	1 °C



Soil thermometer



- 1 | Inserted in protective aluminium housing.
- 2 | Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR006	-10/110 °C - 20/220 °F	1 °C



KKB - Stopwatches

Digital



- 1 | With stopwatch, clock and calendar functions. Supplied with a cord.

Code	KKB001
Watch	12/24 h
Stopwatch	23 h 59 min 59 s
Resolution	1/100 s (≤ 30 min) / 1 s (> 30 min)
Power	Lithium battery



Kartell

- 1 | With 6 functions: hours, minutes, seconds, months, date and day

Code	KKB007
Watch	12/24 h
Resolution	1/100 s

* items are available until end of stock



Digital stopwatch



- 1 | Recording of elapsed time, accumulated times and time of the 1st and 2nd position.
- 2 | Has clock function and programmable alarm.

Code	KKB005
Watch	12/24 h
Calendar	Date and day of the week
Stopwatch	23 h 59 min 59 s
Resolution	1/100 s (≤ 1 h) 1 s (> 1 h)





KKF - Timers

Alarm timer



1 | Laptops and desktops. With alarm at the end of the selected time. Resolution: 1 minute.

Code	Max. time.	Type	Dimensions
KKF001	60 min	Desk/hanged	70x70x40 mm
KKF003	60 min	Portable (Mod. Clip)	57x57x28 mm
KKF004	60 min	Portable (Mod. Onehand)	73x30 mm

Pocket timer



1 | With robe pocket clip, magnet for metal surfaces and ring for vertical positioning.

Code	KKF002
Watch	Modo 12/24 h
Timer	Máx. 23 h 59 min 59 s, with thin alarm of 1 min
Memory	1
Stopwatch	23 h 59 min 59 s
Dimensions	52x67x25 mm
Power	1 button cell



Kartell

Code	KKF005
Watch	12/24 h
Timer	19h 59' (alarm)
Case	ABS white
Type	Support/Clip/Magnet
Dimensions	50x62x23 mm



KLB - Alcoholometers



1 | Glass body. Presentation in individual case. Calibrated at 20°C except KLB015* at 15°C. In Gay Lussac scale (% alcohol volume) and Cartier scale (KLB014 and KLB015).

Code	Range (%V)	Divisions	Length	Diameter
KLB004	0-10 %	1/10	330 mm	31 mm
KLB005	10-20 %	1/10	330 mm	31 mm
KLB006	20-30 %	1/10	380 mm	31 mm
KLB007	30-40 %	1/10	315 mm	30 mm
KLB008	40-50 %	1/10	315 mm	30 mm
KLB009	50-60 %	1/10	315 mm	28 mm
KLB010	60-70 %	1/10	380 mm	25 mm
KLB011	70-80 %	1/10	380 mm	25 mm
KLB012	80-90 %	1/10	380 mm	22 mm
KLB013	90-100 %	1/10	380 mm	23 mm
KLB001	0-30 %	1/10	290 mm	25 mm
KLB002	0-50 %	1/10	260 mm	22 mm
KLB003	50-100 %	1/10	280 mm	16 mm
KLB014	0-100 % vol. 10-44 °Cartier	1/10 1/2	290 mm	15 mm
KLB015*	0-100 % vol. 10-44 °Cartier	1/1 1/2	290 mm	-
KLB016	0-100%	1/1	290 mm	31 mm
KLB017	0-20 %	1/1	305 mm	26 mm
KLB018	20-40 %	1/1	305 mm	26 mm
KLB019	40-60 %	1/1	305 mm	26 mm
KLB020	60-80 %	1/1	305 mm	26 mm
KLB021	80-100 %	1/1	305 mm	26 mm
KLB022	94-104 %	1/1	305 mm	26 mm

KLD - Areometers



- 1| Glass body.
- 2| Presentation in individual case.
- 3| In density scale (Kg/m³). Calibrated at 20°C.



Code	Baumé (°Be)	Divisions	Length	Diameter
KLD001	0-10	1/10	290 mm	16 mm
KLD005	10-20	1/10	310 mm	20 mm
KLD007	20-30	1/10	280 mm	18 mm
KLD008	30-40	1/10	310 mm	18 mm
KLD009	40-50	1/10	290 mm	22 mm
KLD010	50-60	1/10	310 mm	16 mm
KLD011	60-70	1/10	310 mm	15 mm
KLD002	0-30	1/10	310 mm	15 mm
KLD003	0-50	1/10	240 mm	14 mm
KLD004	0-70	1/10	290 mm	12 mm
KLD006	5-15	1/10	310 mm	20 mm
KLD012	0-20	1/10	285 mm	18 mm
KLD013	20-40	1/10	285 mm	18 mm
KLD014	40-60	1/10	290 mm	21 mm
KLD015	30-60	1/10	300 mm	15 mm
KLD016	0-40	1/10	290 mm	15 mm

KLK - Hydrometers



Hydrometer for analytical use

Code	Range (g/mL)	L (total)xØ
KLK032	0.600-0.650	270x21 mm
KLK033	0.650-0.700	270x21 mm
KLK034	0.700-0.750	270x21 mm
KLK035	0.750-0.800	270x21 mm
KLK036	0.800-0.850	270x21 mm
KLK037	0.850-0.900	270x21 mm
KLK038	0.900-0.950	270x21 mm
KLK039	0.950-1.000	270x21 mm
KLK040	1.000-1.050	270x21 mm
KLK041	1.050-1.100	270x21 mm
KLK042	1.100-1.150	270x21 mm
KLK043	1.150-1.200	270x21 mm
KLK044	1.200-1.250	270x21 mm
KLK045	1.250-1.300	270x21 mm
KLK046	1.300-1.350	270x21 mm
KLK047	1.350-1.400	270x21 mm
KLK048	1.400-1.450	270x21 mm
KLK049	1.450-1.500	270x21 mm
KLK050	1.500-1.550	270x21 mm
KLK051	1.550-1.600	270x21 mm
KLK052	1.600-1.650	270x26 mm
KLK053	1.650-1.700	270x26 mm
KLK054	1.700-1.750	270x26 mm
KLK055	1.750-1.800	270x26 mm
KLK056	1.800-1.850	270x26 mm
KLK057	1.850-1.900	270x26 mm
KLK058	1.900-1.950	270x26 mm
KLK059	1.950-2.000	270x26 mm





KLG - Hydrometers

Hydrometers



1 | Glass body. Presentation in individual case. In density scale (Kg/m³), calibrated at 20°C.

Code	Range (g/mL)	Divisions	L (total)xØ
KLG001	0.600-700	1	310x16 mm
KLG002	0.700-800	1	310x16 mm
KLG003	0.800-900	1	310x17 mm
KLG004	0.900-1000	1	310x17 mm
KLG005	1.000-1100	1	310x17 mm
KLG006	1.100-1200	1	310x17 mm
KLG007	1.200-1300	1	310x18 mm
KLG008	1.300-1400	1	310x18 mm
KLG009	1.400-1500	1	310x18 mm
KLG010	1.500-1600	1	310x19 mm
KLG011	1.600-1700	1	310x20 mm
KLG012	1.700-1800	1	310x20 mm
KLG021	1.800-2.000	2	290x20 mm
KLG025	0.600-0.800	2	305x21 mm
KLG026	0.800-1.000	2	285x18 mm
KLG027	1.000-1.200	2	260x18 mm
KLG028	1.200-1.400	2	280x18 mm
KLG029	1.400-1.600	2	290x18 mm
KLG030	1.600-1.800	2	295x21 mm
KLG031	1.800-2.000	2	305x21 mm

Quevenne lactometer



- 1 | Suitable for the determination of milk density in the dairy industry.
- 2 | Glass body with lacto-density scale (15° equals 1015g/mL).
- 3 | Calibrated at 20°C and available with thermometer for deviation correction.
- 4 | Presentation in individual case.

Code	Range	Divisions	L (total)xØ	Thermometer
KLG014	15-40	1	215x19 mm	No
KLG015	15-40	1	290x3 mm	Yes (0-40°C)

Battery hydrometer



- 1 | Allows you to check the electrolyte status of a battery.
- 2 | Rugged glass body, with knob and suction tube.
- 3 | Calibrated at 20°C.al.

Code	Range (g/mL)	N° divisions
KLG020	1.100-1.300	5

Urine hydrometer



- 1 | Glass body. Presentation in individual case
- 2 | In density scale (Kg/m³), calibrated at 20°C.

Code	Range (g/mL)	Divisions	Lenght
KLG017	1.000-1.060	1	145 mm



KLJ - Saccharometers

With and without thermometer



- 1| Indicated for the determination of the sugar concentration in a solution.
- 2| On Brix scale (1 °Brix is equivalent to 1 g of sucrose per 100 g of solution (1% in Weight)).
- 3| Calibrated at 20°C. Presentation in individual case..

Code	Range (°Bx)	Div.	L (total)xØ	Thermometer
KLJ001	0-30	1	280x15 mm	No
KLJ008	70-80	1	370x26 mm	Yes
KLJ009	80-90	1	370x26 mm	Yes
KLJ010	30-60	1	370x21 mm	Yes
KLJ011	60-90	1	370x21 mm	Yes



With and without thermometer



- 1| Indicated for the determination of the sugar concentration in a solution.
- 2| On Brix scale (1 °Brix is equivalent to 1 g of sucrose per 100 g of solution (1% in Weight)).
- 3| Calibrated at 20°C. Presentation in individual case.

Code	Range (°Bx)	Div.	L (total)xØ	Thermometer
KLJ002	0-10	1/10	375x25 mm	Yes
KLJ003	0-20	1/5	375x18 mm	Yes
KLJ004	20-30	1/10	375x25 mm	Yes
KLJ005	30-40	1/10	375x25 mm	Yes
KLJ006	40-50	1/10	375x25 mm	Yes
KLJ007	50-60	1/10	375x25 mm	Yes
KLJ012	0-10	1/10	305x26 mm	No
KLJ013	10-20	1/10	305x26 mm	No
KLJ014	20-30	1/10	305x26 mm	No
KLJ015	30-40	1/10	305x26 mm	No
KLJ016	40-50	1/10	305x26 mm	No
KLJ017	50-60	1/10	305x26 mm	No
KLJ018	60-70	1/10	305x26 mm	No
KLJ019	70-80	1/10	305x26 mm	No
KLJ020	80-90	1/10	305x26 mm	No
KLJ021	0-30		280x18 mm	No
KLJ022	30-60	1/5	280x18 mm	No



KLL - Mustimeters

Mustimeters



- 1| Glass body and presented in individual case
- 2| Calibration at 20°C

Code	Baumé (°Be)	Divisions	L (total)xØ
KLL001	0-30 °Be	1/2	290x17 mm
KLL004*	7-16°Be	1/5	250x23 mm
KLL005	0-20 °Be	1/5	260x20 mm
	4-22 % alc. probable	1/5	
KLL003	4-18 % alc. probable	1/2	310x19 mm
	0.980-1.130 g/mL	1	

* item is available until end of stock





KLL - Mustimeters

▶ Wine hydrometer



Code	Range (°Bx)	Divisions	L (total)xØ
KLL002	-5/30 % vol. alcohol	1/1	245x20 mm



KLN - Hydrometers



1 | Glass body and presented in individual case. Calibrated at 20°C

Code	For	Range	L (total)xØ
KLN003	Siroups	0-50° Be	250x11 mm
KLN006	Bleach	0-45 °Be	255x12 mm
KLN011	Heavys	0- 70° Be 1.000-2.000 Kg/m³	290x15 mm
KLN012	Lights	10- 70° Be 0.700-1.000 Kg/m³	305x15 mm
KLN013	Heavys	0- 50° Be 1.000-1.500 Kg/m³	305x18 mm
KLN014	Heavys	50 70° Be 1.500-2.000 Kg/m³	305x15 mm
KLN015	Universal	70- 70° Be 0.700-2.000 Kg/m³	150x10 mm



KLP - Pycnometer for solids

▶ Density petroleum hydrometer



- 1 | Indicated for determining the density of petroleum products. According to ISO3675.
 2 | Calibrated at 15°C according to ISO 649-1.
 3 | M50SP and L50SP series available.

Code	Range (°Bx)	Calibration	L (total)xØ
KLP001	0.650-0.700	0,001	270 mm
KLP002	0.700-0.750	0,001	270 mm
KLP003	0.750-0.800	0,001	270 mm
KLP004	0.800-0.850	0,001	270 mm
KLP005	0.850-0.900	0,001	270 mm
KLP006	0.900-0.950	0,001	270 mm
KLP007	0.950-1.000	0,001	270 mm
KLP008	0.650-0.700	0,0005	335 mm
KLP009	0.700-0.750	0,0005	335 mm
KLP010	-	0,0005	335 mm
KLP011	-	0,0005	335 mm
KLP012	-	0,0005	335 mm
KLP013	-	0,0005	335 mm
KLP014	-	0,0005	335 mm

KLQ - Pycnometers

Gay-Lussac



DIMENSIONS - pycnometers Gay Lussac

*d: diameter
h: height*



1 | They allow to know the density or specific weight of liquids or solids. Made of borosilicate glass according to ISO 3507. Calibrated at 20°C.

Code	Cap.	Tolerance	Esm.	ØxH (mm)
KLQ001	10 mL	± 1 mL	7/11	27 x 55
KLQ002	25 mL	± 2 mL	10/13	40 x 75
KLQ003	50 mL	± 3 mL	10/13	50 x 85
KLQ007	100 mL	± 5 mL	10/13	57 x 100



BORO
3.3



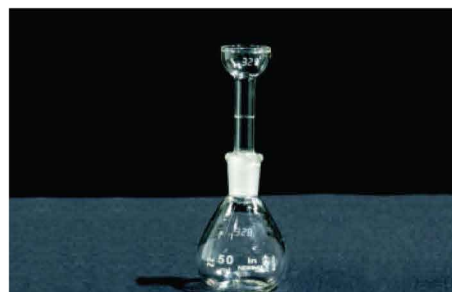
Code	Capacity	Tolerance
KLQ005	25 mL	± 2 mL
KLQ006	50 mL	± 3 mL



Pycnometer for solids



Code	Capacity	Tolerance
KLQ004	50 mL	± 3 mL
KLQ008	25 mL	± 2 mL



Pycnometer for solids



DIMENSIONS - pycnometer for solids

*d1: diameter
d2: diameter
d3: diameter
h: height*



Code	Capacity	Ground joint	d1 x d2 x d3 x h (mm)
KLQ010	500 mL	45/40	105x10x40x355
KLQ011	1000 mL	45/40	131x10x40x390





KNB - Rotational viscosimeters

Rotational analogic, model 801



- 1 | Analogic rotational viscometer, robust, efficient and of easy use.
- 2 | Determination of low dynamic viscosities (motor oil, paints, varnishes, etc)
- 3 | It has 4 rotation speeds and is equipped with 4 spindles.
- 4 | Solid column with pinion/rack system to adjust the head height.
- 5 | Large and stable support base with adjustable legs and bubble level in the head
- 6 | Supplied in metallic case.

Code	KNB001
Measuring range	10-100000 mPa·s (cP)
Precision	±1%
Spindles	n° 1, 2, 3, 4
Speed	6/12/30/60 rpm
Tolerance	± 5% (Newtonian fluids)
Power supply	220V, 50 Hz

* for low viscosities, spindle n° 0 is required (not included)

Digital viscosimeter, series 810



- 1 | Equipped with 4 spindles, spindle guard and temperature probe.
- *Spindle 0 specific for measuring low viscosities included also on models KNB008, KNB009 and KNB010.
- 2 | LCD backlit display and large control panel for speed and spindle parameter selection
- 3 | RS-232 output
- 4 | Solid support and metal bracket for a strong grip. Incorporates leveling bubble for perfect leveling.
- 5 | Solid column with rack and pinion system and metal head clamp. They allow to place the head comfortably at the desired height, ensuring good stability.
- 6 | The equipment is supplied with support for spindles and on aluminium breafcase for optimum viscometer and support storage and conservation.

Code	KNB005	KNB006	KNB007
Model	810/1	810/2	810/3
Measuring range (mPa·s (cP))	10 – 100000	10 – 2 x10 ⁶	10 – 6x10 ⁶
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s	1 mPa·s	1 mPa·s
Precision	± 1%	± 1%	± 1%
Spindles	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4
Repeatability	0.5 %	0.5 %	0.5 %
Power supply	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz

Spindle 0 specific for measuring low viscosities included also on models KNB008, KNB009 and KNB010.

Code	KNB008	KNB009	KNB010
Model	810/1	810/2	810/3
Measuring range (mPa·s (cP))	1 – 100000	1 – 2 x10 ⁶	1 – 6x10 ⁶
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s	1 mPa·s	1 mPa·s
Precision	± 1%	± 1%	± 1%
Spindles	0,1, 2, 3, 4	0,1, 2, 3, 4	0,1, 2, 3, 4
Repeatability	0.5 %	0.5 %	0.5 %
Power supply	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz



► KNB - Rotational viscosimeters

► Viscosimeters ST-2011



- 1 | Measurement of relative and absolute viscosity.
 - 2 | Possibility to change the S.I. to C.G.S. data.
 - 3 | Automatic function check by scanning at different speeds, self-checking with audible and visual alarm in case of malfunction
 - 4 | Gradual deceleration of the speed, stopping the unit, thus avoiding vibrations of the rod.
 - 5 | Calibratable by the user.
 - 6 | 18 speeds programmed from 0.3 to 100 r.p.m.
 - 7 | Outputs: USB port. The user can program other different speeds on his own.
 - 8 | Safety protection against mains voltage increases. 10 working memories.
 - 9 | Temperature range: 0.0 °C to +100.0 °C (+32.0 °F to +212.0 °F).
- Resolution °C: 0.1 °C (0.1722 °F). Accuracy °C: ± 0.1 °C. Probe type: pt 100.
Direct reading in cp (mpa-s) on models STS-2011 L and R.
Direct reading in poise (pa-s) on model STS-2011 H.
Accuracy: $\pm 1\%$ full scale. Reproducibility: 0.2%.



Code	KNB501	KNB502	KNB503
Model	ST-2011 L	ST-2011 R	ST-2011 H
Rotors	L1 to L4	R2 to R7	R2 to R7
Measure range	20 à 2000000 cp	100 à 13000000 cp	200 à 106000000 cp
Power	100/240v; 50/60 Hz		
Consume	15W		
Weight	5 Kg		

► Viscosimeter ST-2020



- 1 | Reading of measurement parameters on L.C.D. screen:
 - Programmed speed: r.p.m.
 - Selected rod S.p.
 - Viscosity reading cp (mpa-s) or cSt
 - Full-scale proportion %
 - Sample temperature °C or °F
 - 2 | Self-monitoring with audible and visual alarm in case of malfunctions
 - 3 | Detection and indication of "out of scale" by means of a sound and visual system
 - 4 | Gradual deceleration of the speed, by stopping the unit, thus avoiding vibrations of the rod
 - 5 | Safety protection against mains voltage increases
 - 6 | RS232 output for data transfer to a computer
 - 7 | Accuracy: $\pm 1\%$ full scale, reproducibility: 0.2%.
 - 8 | Temperature range: 0.0 °C to +100.0 °C (+32.0 °F to +212.0 °F).
- Resolution: 0.1 °C (0.1722 °F). Accuracy: ± 0.1 °C (± 0.1 °F).
9 | Basic equipment includes: shock-proof carrying case, stand with levelling, rod protector, rod holder, rod set according to model, temperature probe



Code	KNB504	KNB505
Model	ST-2020 L	ST-2020 R
Units	Centipoise (cp)	
Rotors	L1 à L4	R2 à R7
Speed range	1 -60 rpm	0,1 - 100 rpm
Plage de mesure	20 à 600000 cp	20 à 40000000 cp
Measure	0,0 à 100,0°C	
Power	115/230v à 12vDC 1.2A	
Consume	15W	
Weight	5 Kg	



KNB - Rotational viscosimeters

Micro-ubbelohde viscometer



- 1 | Suitable for transparent liquids. Calibration certificate. Nominal overall length 290 mm.
- 4 | Permanent ring marks in amber. Sample filling volume: 3 ml.

Code	Size	Nominal constant	Viscosity range in cSt
KNB507	I	0,01	0,4 to 6
KNB508	Ic	0,03	1,2 to 18
KNB509	II	0,1	4 to 60
KNB510	Iic	0,3	12 to 180
KNB511	III	1,0	40 to 800

"U-tube reverse flow" viscometer



- 1 | Suitable for opaque liquids. Calibration certificate.
- 2 | Nominal overall length 275 mm. Permanent ring marks in amber

Code	Size	Nominal constant	Viscosity range in cSt
KBN512	1	0,003	0,6 to 3
KBN513	2	0,01	2 to 10
KBN514	3	0,03	6 to 30
KBN515	4	0,1	20 to 100
KBN516	5	0,3	60 to 300
KBN517	6	1,0	200 to 1000
KBN518	7	3,0	600 to 3000
KBN519	8	10	2000 to 10000
KBN520	9	30	6000 to 30000
KBN521	10	100	20000 to 100000
KBN522	11	300	60000 to 300000



KNG - Accessories

Accessories



Code	Description	Model
KNG011	Spindle N° 1	810
KNG012	Spindle N° 2	810
KNG013	Spindle N° 3	810
KNG014	Spindle N° 4	810
KNG015	Temperature probe viscosimeter	810

Code	Description
KNG504	Rotor R1 (for low viscosity samples)
KNG505	Set of spindles TL5 – TL6- TL7 for models L.
KNG506	Set of spindles TR8 - TR9 - TR10 - TR11 for models R and H.
KNG508	Temperature sensor suitable for LCP.



KNG - Accessories

► Displacement spiral helix adapter.



Code	Description
KNG503	Required for low fluidity samples.



► Universal viscometer support



Code	Description
KNG507	Made from PTFE with stainless steel AISI 304 support.



KZB - Dissolved oxygen

► Laboratory DO analyzer, 912/5



- 1 | Desktop equipment for simultaneous measurement of OD and temperature, and calculation of biological oxygen demand (BOD).
- 2 | For the control of water for consumption, urban and industrial waste water, production plans (fish farms, consumer drinks, preserves, etc.) or the water circuits of boilers and heating among many other applications.
- 3 | Includes as standard a polarographic electrode with integrated temperature probe.
- 4 | With automatic temperature compensation (CAT) in the range of 0-40°C
- 5 | Calibration in 0% and 100% saturation OD, atmospheric pressure and salinity.
- 6 | With RS-232 output for connection to PC or printer.

Code	KZB001
Measured range	
Concentration OD	0.00-19.99 mg/L
Saturation OD	0.0-200.0%
Temperature	-5.0/105.0° C
Electrical unit accuracy	
Concentration OD	± 0.10 mg/L
Saturation OD	± 1% (complete scale)
Temperature	± 0.3° C
Accuracy of the meter	
Concentration OD	± 0.30 mg/L (si T calibration - T measure < ± 3.0° C) ± 0.50 mg/L (si T calibration - T measure < ± 15.0° C)
Saturation OD	± 5% (si T calibration - T measure < ± 3.0° C) ± 10% (si T calibration - T measure < ± 15.0° C)
Temperature	± 0.5° C ± 1 digit (between 0.0-60.0° C) ± 1° C ± 1 digit (out of range 0.0-60.0° C)
Stability	± 20 mg/L/1h
Reproducibility	0.20 mg/L
Range CAT	0.0-40.0° C (Tof solution)
Remaining current	≤ 0.10 mg/L
Response time	≤ 45 s (90% response 20.0° C)
Corection salinity range	0.0-40.0 g/L
Atm presion correction range	77.0-110.0 kPa
Environmental conditions	5.0-35.0° C; ≤ 80%
HR Memory	50 data groups
Dimensions	290x200x70 mm
Power	DC 9 V, 300 mA





KZB - Dissolved oxygen

Dissolved oxygen DO8500



- 1| The equipment is supplied in a carrying case with dissolved oxygen sensor (KZD011) and conductivity probe (KZD014) with 3 metres of connecting cable, DO sensor calibration sleeve, combined electrode junction, USB connector cable, PC-Link Communication software, water conservation sponge, batteries and user manual.
- 2| Accessories: 10 meter optical sensor for DO8500 meter (KZD012); 10 meter salinity probe for DO8500 (KZD015); luminescent cover for optical sensor (KZD013).

Code	KZB004
Model	DO8500
Dissolved oxygen	
Range	0-200 %; 0 – 20.0 mg/L
Resolution	0.1/1 %, 0.01/0.1 mg/L (ppm)
Accuracy	±2% of lecture or ±2% of saturation; ±2% of lecture or ±0.2 mg/L (ppm)
Response time	< 30 s (25°C, 90% response)
Calibration	Zero oxygen and oxygen saturation
Compensation de Temp.	Automatic, 0 to 50°C
Compensation air pressure	Automatic 60 to 120 kPa
Compensation salinity	Automatic or manual, 0 to 45 ppt 0 to 45 ppt
Temperature	
Range	From 0 to 50 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C



KZD - Multiparameter

Premium Series



- 1| Automatic temperature compensation. Automatic recognition of 5 types of buffer solutions.
- 2| Automatic temperature compensation.
- 3| With different types of replaceable and interchangeable electrodes or probes. Compatible electrodes: KDG014 (spherical membrane), KDG015 (flat membrane), KDG016 (lancet membrane), KZD009 (platinum probe).

Code	KZD005
Parameters	pH/EC/°C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt
Probe type	Platinum

Smart Series



- 1| New generation smart analysers, the Smart Series enables recording of measured parameters on mobile devices (Android or iOS) using the ZenTest application via Bluetooth 5.0.
- 2| Can be used conventionally without connection to a mobile device. Four data display modes: Simple, Dial, Graph, Chart, Table
- 3| Compatible probes: KDG017 (spherical membrane), KDG018 (flat membrane), KDG019 (lancet membrane), KZD010 (platinum membrane).

Code	KZD006
Parameters	pH/EC/°C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt
Probe type	Platinum



KZD - Multiparameter

850 series



- 1| Supplied with combined pH and conductivity electrodes with integrated temperature probe. Automatic temperature compensation.
- 2| Large LCD display for measured value display, calibration indicators, stable reading icons and self-diagnostics.
- 3| Parameters: pH, ORP, Conductivity, TDS, Salinity, Temperature.
- 4| IP57 protection rating, waterproof, silicone connection protectors and rubber coating make them a rubber coating make the instruments suitable for use in harsh environments, such as in industrial environments or for such as in industrial environments or outdoor measurements in harsh environmental conditions. environmental conditions.
- 5| Compatible electrodes: KDG021 (pH electrode with temperature probe), KZD026 (conductivity electrode with temperature probe).

Code	KZD007
Model	PC850
Parameters	pH/mV/Temp/Cond/TDS
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Conductivity	
Range	0 – 19.99 μ S/cm; 20.0 – 199.9 μ S/cm 200-1999 μ S/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μ S, 0.01/0.1 mS
Accuracy	± 1.0% FS ± 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



820 series



- 1| Its intelligent processor automatically recognises up to 15 types of pH buffer solutions and up to 8 types of conductivity standard solutions.
- 2| Large LCD display with simultaneous display of pH/Cond and temperature, icons for stable readings and calibration completion.
- 3| Dust and splash protection IP54. Flexible holder for 3 electrodes included
- 4| Electrodes and probes included: KDG022 (Routine pH electrode), KZD019 (Conductivity electrode with temperature probe), KZD019 (Conductivity electrode with temperature probe).

Code	KZD008
Model	pH820
Parameters	pH/mV/ Cond/TDS/Sal/°C
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Accuracy	±0.002 pH ± 1 digit
Stabilité	±0.002 pH ± 1 digit/3hours
Temp. compensation	0-100°C
Calibration	1 to 5 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Conductivity	
Range	0 – 19.99 μ S/cm; 20.0 – 199.9 μ S/cm 200-1999 μ S/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μ S, 0.01/0.1 mS
Accuracy	± 0.5% FS ± 1 digit
Constant electrode	0.01/0.1/1.0/10.0 cm-1
Temp. compensation	0 – 50°C
Calibration	1 to 4 points, automatic
Temperature	-10 – 110°C
Accuracy	±0.1 % FS ± 1 digit





KZD - Multiparameter

Conductivity electrodes



COD:KZD016



COD:KZD017



COD:KZD019



COD:KZD021



COD:KZD022



1 | BNC connectors (except KZD026) for conductivity probe and RCA for temperature.

Code	KZD016	KZD017	KZD018	KZD019	KZD020
Model	2301-C	2401-C	2301T-F	2401T-F	DSJ-0.1-F
Range	0.5-200 mS/cm				20-200 µS/cm
Probe temp	No	No	Yes	Yes	-
Body	PC	Glass	PC	Glass	Glass
Dimens (mm)	ø12x155	ø12x145	ø12x155	ø12x 145	ø12x 155
Connector	BNC	BNC	BNC/RCA	BNC/RCA	BNC/RCA

Code	KZD021	KZD022
Model	2310-C	2310T-F
Range	20 – 2000 mS/cm	
Probe temp	No	Yes
Body	PC	PC
Dimens (mm)	ø 12x150	ø12x150
Connector	BNC	BNC/RCA



KZF - Turbidity

Portable turbidity



- 1 | They are designed to be used both in the laboratory and outdoors (protection class IP67), such as drinking water analysis, soft drink analysis, environmental controls, etc.
- 2 | They have a large color TFT screen, with support for graphic operation guides and text, and a bar that indicates the progress of the measurement.
- 3 | Turbidity measurement is performed by the nephelometric method of measuring light scattered at 90°, which provides greater accuracy at low measurement values. The TN meters follow the ISO 7027/ DIN EN 27027 standard, with an infrared light source of 860 nm wavelength (models TN400 and TN500i); or the U.S. EPA180.1 standard with a tungsten lamp emitting a white light source (model TN500).
- 4 | The 500 models have more advanced features such as 200 data groups and the USB output

Code	KZF001	KZF004	KZF005
Model	TN400	TN500	TN500i
Measuring method	90° scattering measurement		
Standard	ISO 7027	U.S. EPA 180.1	ISO 7027
Light source	860 nm LED	Tungsten lamp	860 nm LED
Detector	Yeslice photodiode		
Measuring range	0 – 1000 NTU		
Accuracy	± 2% of reading + stray light		
Repeatability	≤ ± 1 % / 0.02 NTU		
Calibration points	0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU		
Measuring mode	Normal	Normal / TruRead	Normal / TruRead
Parameter configuration	No	TruRead: 5/10/15/20 reading	
Languages	English	English / Spanish	English / Spanish
Data storage	No	USB	USB
Sample vials	18 mL		
Power supply	AA x 4	Lithium rechargeable 3,7V - AAx4	


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