

INSTRUMENT GENERAL CATALOG



Conductivity Meters ● ● ● ● ●

Thermometers ● ● ● ● ●

Tachometers ● ● ● ● ●

ORP Meters ● ● ● ● ●

PH Meters ● ● ● ● ●

TDS Meters ● ● ● ● ●

Refractometers ● ● ● ● ●

CF Meter & EC Meter ● ● ● ● ●

Wastewater & Sewage Pumps ● ● ● ● ●

PH METER

TDS METER

EC METER

ORP METER

THERMOMETER

TACHOMETER

Reference List

測量範圍	分辨率	精度	電源	操作溫度
測量範圍	解析度	精確度	使用電源	使用溫度
측정범위	최소단위	정확도	전원	작동온도환경
Measuring range	Resolution	Accuracy	Power Supply	Operating Temperature
Диапазон измерения	Дискретность измерения	Погрешность измерения	Тип питающих батарей	Температуры компенсации
Messbereich	Auflösung	Genauigkeit	Batterie	Betriebstemperatur
Gamma di misurazione	Risoluzione	Errore di misurazione	Fornitura di potenza	Temperatura comp.

CONTENTS

(P1) pH Meters

KL-009(I) Pocket-sized pH Meter
 KL-009(II) High Accuracy Pen-type pH Meter
 KL-009(III) High Accuracy Pen-type pH Meter
 KL-03(I) High Accuracy Pen-type pH Meter
 KL-03(II) Waterproof Pen-type pH Meter
 KL-03(III) Waterproof Pen-type pH Meter
 KL-010 Folding Three In One pH Tester
 KL-008 High Accuracy Portable pH Meter
 KL-013 High Accuracy Portable pH Meter
 KL-016 Bench-top pH Meter
 KL-025 Mini pH Meter

(P13) Conductivity Meters

KL-138 Electric Conductivity Meter
 KL-1382 Conductivity Tester
 KL-1383 Conductivity Tester
 KL-1371/1372 Pen-type EC Meter
 KL-1385 Waterproof Conductivity Meter

(P20) TDS Meters

KL-139 TDS Tester
 KL-1393 TDS Tester

(P24) ORP Meters

KL-169 ORP/Redox Tester

(P26) CF Meter

KL-1361/1362 Pen-type CF Meter

(P27) Online pH Instrument

KL-018 Industrial On-line pH Controller
 KL-100 Digital pH Controller
 KL-201 Digital pH Controller
 KL-203 Digital pH/ORP Controller

(P31) Online ORP Instrument

KL-019 Industrial On-line ORP Controller
 KL-200 Digital ORP Controller
 KL-206 Digital ORP Controller

(P34) Online Conductivity Instrument

KL-208 Digital Conductivity Controller

(P35) Tachometers

KL-005 /006 Tachometer
 KL-007 Many Functions Tachometer

(P37) Thermometers

KL-9806 Digital Mini Thermometer
 KL-9816 Folding Thermometer
 KL-9826/9836 Digital Hygro Thermometer

(P40) Refractometers

Hand Held Refractometers

(P41) Wastewater & Sewage Pumps

KL-51 Water Pump



KL-009(I)

Pocket-sized pH Meter

- Reliable and stable
- Easy operation
- Low cost
- Easy to carry

TECHNICAL SPECIFICATION

Model	KL-009(I)	KL-009(I)A	KL-009(I)B
Measuring range	0.0~14.0pH		
Accuracy	$\pm 0.2\text{pH}$ $\pm 0.1\text{pH(at } 20^{\circ}\text{C)}$	$\pm 0.1\text{pH}$	$\pm 0.2\text{pH}$ $\pm 0.1\text{pH(at } 20^{\circ}\text{C)}$
Resolution	0.1pH		
Operating Temperature	0°C~50°C		
Automatic Temperature Compensation		0°C~50°C	
Plug	Fixed Electrode		BNC
Power Supply	3×1.5V(AG13)	4×1.5V(AG13)	4×1.5V(AG13)
Dimensions	142×29×15(mm ³)		
Weight	51g		70g

KL-009(I)B



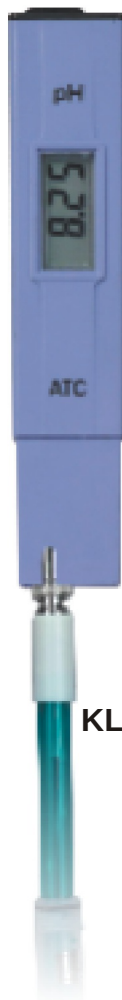
KL-009(I)



KL-009(I)A



KL-009(II)



KL-009(II)A



KL-009(II)

High Accuracy Pen-type pH Meter

- Easy to read LCD
- Reliable and stable
- Automatic Temperature Compensation
- High Accuracy with 0.01 pH resolution

TECHNICAL SPECIFICATION

Model	KL-009(II)	KL-009(II)A
Measuring range	0.00~14.00pH	
Accuracy	$\pm 0.1\text{pH}$	
Resolution	0.01pH	
Operating Temperature	0°C~50°C	
Automatic Temperature Compensation	0°C~50°C	
Plug	Fixed Electrode	BNC
Power Supply	4×1.5V (AG13)	
Dimensions	170×36×23(mm ³)	
Weight	85g	105g



KL-009(III)

High Accuracy Pen-type pH Meter



- Easy-to-read Custom Dual-level LCD
- On-the-spot measurement
- Automatic Temperature Compensation
- Stability Indicator

TECHNICAL SPECIFICATION

Model	KL-009(III)
Measuring range	0.00~14.00PH 0°C~55°C
Accuracy	±0.1PH ±1°C
Resolution	0.01PH 0.1°C
Operating Temperature	0°C~50°C
Automatic Temperature Compensation	0°C~50°C
Power Supply	4×1.5V (AG13)
Dimensions	170×36×23(mm ³)
Weight	91g

- Lightweight and compact
- Quick accurate readings
- Membrane switching
- Long Battery Life

TECHNICAL SPECIFICATION

Model	KL-03(I)
Measuring range	0.00~14.00PH
Accuracy	$\pm 0.1\text{PH}$
Resolution	0.01PH
Operating Temperature	0°C~50°C
Automatic Temperature Compensation	0°C~50°C
Power Supply	2×3V (CR2032 Battery)
Dimensions	150×27×20 (mm ³)
Weight	46g



KL-03(I)

High Accuracy Pen-type pH Meter





KL-03(II)

Waterproof Pen-type pH Meter



- Waterproof
- Replaceable Electrode Design
- Compact, handy
- Long Battery Life

TECHNICAL SPECIFICATION

Model	KL-03(II)
Measuring range	0.00~14.00PH
Accuracy	±0.1PH
Resolution	0.01PH
Operating Temperature	0℃~50℃
Automatic Temperature Compensation	0℃~50℃
Power Supply	4×1.5V(AG13)
Calibration	1 point
Dimensions	165×26×26 (mm ³)
Weight	63g

- Waterproof
- Replaceable Electrode Design
- Compact, handy
- Long Battery Life

TECHNICAL SPECIFICATION

Model	KL-03(II)A
Measuring range	0.00~14.00PH
Accuracy	$\pm 0.1\text{PH}$
Resolution	0.01PH
Operating Temperature	0°C~50°C
Automatic Temperature Compensation	0°C~50°C
Power Supply	4×1.5V(AG13)
Calibration	1 point
Dimensions	120×26×26 (mm ³)
Weight	70g



KL-03(II)A

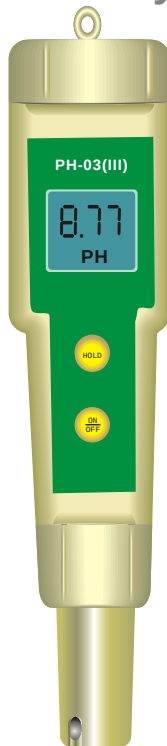
Pen-type pH Meter





KL-03(III)

Waterproof Pen-type pH Meter



- Large and easy-to-read LCD
- Replaceable pH electrode
- Waterproof design
- Data hold

TECHNICAL SPECIFICATION

Model	KL-03(III)
Measuring range	0.00~14.00PH
Accuracy	±0.1PH
Resolution	0.01PH
Operating Temperature	0℃~50℃
Automatic Temperature Compensation	0℃~50℃
Power Supply	4×1.5V(AG13)
Dimensions	188 × 35 × 35 (mm ³)

TECHNICAL SPECIFICATION

Model	KL-010	
Measuring range	PH	0.00~14.00PH
	°C	-5°C~50°C
	RH	10%~99%RH
Resolution	PH	0.01PH
	°C	0.1°C
	RH	1%RH
Accuracy	PH	±0.1PH
	°C	±1°C
	RH	±5%RH
Operating Temperature	0°C~50°C	
Automatic Temperature Compensation	0°C~50°C	
Power Supply	4×1.5V(A G13)	
Dimensions	156 × 55 × 23 (mm³)	
Weight	95g	



KL-010

Folding Three In One pH Tester



- Folding design
- Large LCD
- Easy operation
- Simultaneous display of pH, Temperature and Humidity



KL-025

Mini PH Meter



TECHNICAL SPECIFICATION

Model	KL-025
Measuring range	0.00~14.00PH
Accuracy	$\pm 0.1\text{PH}$
Resolution	0.01PH
Operating Temperature	0°C~50°C
Power Supply	4 × 1.5V(AG13)
Dimensions	60 × 55 × 23 (mm ³)
Weight	62g

It is applicable to determine pH value of water solution in departments of medical treatment, environment protection, scientific research, college and mechanical plant etc.

TECHNICAL SPECIFICATION

Model	KL-008
Measuring range	0.00~14.00PH
Accuracy	±0.1PH
Resolution	0.01PH
Operating Temperature	0℃~50℃
Automatic Temperature Compensation	0℃~50℃
Power Supply	4x1.5V(DC)alkalinity battery
Dimensions	200x60x24.5 (mm ³)
Weight	260g



KL-008

High Accuracy Portable PH Meter





KL-013

High Accuracy Portable pH Meter



- Splashproof membrane switching - push - button calibration
- Measures pH, mV, and temperature (Centigrade)
- Automatic temperature compensation
- 9-Volt Battery Operation

TECHNICAL SPECIFICATION

Model	KL-013	
Measuring range	PH	0.00~14.00PH
	mV	0~±1999mV
	Temp	0~100℃
Accuracy	PH	±0.01pH
	mV	±0.1% F • S ±1digit
	Temp	±0.4℃
Resolution	PH	0.01pH
	mV	1mV
	Temp	0.1℃
Environment	Temperature:0℃~50℃ Humidity:≤95%	
Display	4-digital LCD	
Power Supply	9V Battery	
Input Impedance	$10^{12} \Omega$	
Dimensions	180×83×46 (mm ³)	
Weight	290g	

TECHNICAL SPECIFICATION

Model	KL-016	
Measuring range	PH	0.00~14.00PH
	V	0~±1999mV
	Temp	0~100℃
Accuracy	PH	±0.01pH
	mV	±0.1% F • S ±1digit
	Temp	±0.4℃
Resolution	PH	0.01pH
	mV	1mV
	Temp	0.1℃
Environment	Temperature:0℃~50℃ Humidity:≤95%	
Display	4-digital LCD	
Power Supply	AC110V or AC220V 50/60 Hz	
Input Impedance	10 ¹² Ω	
Dimensions	240×185×100 (mm ³)	
Weight	660g	



KL-016

Bench-top pH Meter



- Interchangeable probes
- Ergonomic design
- Automatic Temperature Compensation



KL-138

Electric Conductivity Meter



- Light weight and pocket sized
- Easy operation
- Reliable and stable
- Easy to carry

TECHNICAL SPECIFICATION

Model	KL-138
Measuring range	10~1990us/cm
Accuracy	±2%F-S
Resolution	10 us/cm
Display	3-digital LCD
Operating Temperature	0℃~50℃
Automatic Temperature Compensation	0℃~50℃
Power Supply	4x1.5V(A G13)
Dimensions	142×29×15 (mm ³)
Weight	51g



KL-1382

Conductivity Tester

TECHNICAL SPECIFICATION

Model	KL-1382
Measuring range	0~1999us/cm
Accuracy	±2%F-S
Resolution	1 us/cm
Display	4-digital LCD
Environment	Humidity: ≤95%
Automatic Temperature Compensation	0℃~50℃
Power Supply	2×3V (CR2032 Battery)
Dimensions	150×27×20 (mm ³)
Weight	46g





KL-1382A/B

Conductivity Tester

KL-1382A



KL-1382B



TECHNICAL SPECIFICATION

Model	KL-1382A	KL-1382B
Measuring range	0~1999us/cm	
Accuracy	±2%F-S	
Resolution	1 us/cm	
Display	4-digit LCD	
Environment	Humidity: ≤95%	
Automatic Temperature Compensation	0°C~50°C	
Power Supply	4×1.5V (A G13)	
Dimensions	165×26×26 (mm ³)	60X55X23 (mm ³)
Weight	63g	60g



KL-1383

Conductivity Tester

TECHNICAL SPECIFICATION

Model	KL-1383
Measuring range	0~19.99ms/cm
Accuracy	$\pm 2\%F\cdot S$
Resolution	0.01ms/cm
Display	4-digital LCD
Environment	Humidity: $\leq 95\%$
Automatic Temperature Compensation	0°C~50°C
Power Supply	2×3V (CR2032 Battery)
Dimensions	150×27×20 (mm ³)
Weight	46g





KL-1383A/B

Conductivity Tester

KL-1383B



KL-1383A

TECHNICAL SPECIFICATION

Model	KL-1383A	KL-1383B
Measuring range	0~19.99ms/cm	
Accuracy	±2%F-S	
Resolution	0.01ms/cm	
Display	4-digital LCD	
Environment	Humidity: ≤95%	
Automatic Temperature Compensation	0℃~50℃	
Power Supply	4×1.5V (AG13)	
Dimensions	165×26×26(mm ³)	60X55X23(mm ³)
Weight	63g	60g

Pen-type EC Meter

TECHNICAL SPECIFICATION

Model	KL-1371	KL-1372
Measuring range	0~19.9EC	0~19.99EC
Resolution	0.1EC	0.01EC
Accuracy	$\pm 2\%F.S$	
Operating Temperature	0°C~50°C	
Automatic Temperature Compensation	0°C~50°C	
Power Supply	4x1.5V (A G13)	2x3V (CR2032B battery)
Dimensions	142x29x15(mm) ^φ	150x27x20(mm) ^φ
Weight	51g	46g



KL-1371



KL-1372

KL-1385 EC/CF/TDS

Waterproof Conductivity Meter



- Large and easy-to-read LCD
- Waterproof design to withstand wet environment
- Measures 3 parameters including EC,CF,TDS using one electrode
- Hold Function -- Saves measurements for convenient reading and recording

TECHNICAL SPECIFICATION

Model	KL-1385	
Measuring range	EC	0.00~19.99EC
	CF	0.0~199CF
	TDS	10~19990ppm
Resolution	EC	0.01EC
	CF	0.1CF
	TDS	10ppm
Accuracy	± 2%F.S	
Operating Temperature	0℃~50℃	
Automatic Temperature Compensation	0℃~50℃	
Power Supply	4×1.5V(A G13)	
Dimensions	185 × 38 × 38 (mm ³)	

TECHNICAL SPECIFICATION

Model	KL-139
Measuring range	0~1999 PPm(mg/L)
Accuracy	±2%F-S
Resolution	1 PPm(mg/L)
Display	4-digital LCD
Environment	Humidity:≤95%
Automatic Temperature Compensation	0℃~50℃
Power Supply	2×3V (CR2032 Battery)
Dimensions	150×27×20 (mm ³)
Weight	46g



KL-139

TDS Tester





KL-139A/B

TDS Tester

KL-139A



KL-139B



TECHNICAL SPECIFICATION

Model	KL-139A	KL-139B
Measuring range	0~1999 PPm(mg/L)	
Accuracy	±2%F·S	
Resolution	1 PPm(mg/L)	
Display	4-digital LCD	
Environment	Humidity ≤95%	
Automatic Temperature Compensation	0℃~50℃	
Power Supply	4×1.5V (A G13)	
Dimensions	165×26×26(mm ³)	60X55X23(mm ³)
Weight	63g	60g

TECHNICAL SPECIFICATION

Model	KL-1393
Measuring range	0~19.99 ppt
Accuracy	±2%F-S
Resolution	0.01 ppt
Display	4-digital LCD
Environment	Humidity ≤95%
Automatic Temperature Compensation	0°C~50°C
Power Supply	2×3V (CR2032 Battery)
Dimensions	150×27×20 (mm ³)
Weight	46g



KL-1393

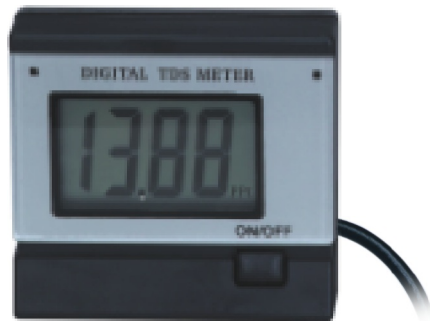
TDS Tester





KL-1393A/B

TDS Tester



KL-1393B



KL-1393A

TECHNICAL SPECIFICATION

Model	KL-1393A	KL-1393B
Measuring range	0~19.99ppt	
Accuracy	±2%F-S	
Resolution	0.01ppt	
Display	4-digital LCD	
Environment	Humidity ≤95%	
Automatic Temperature Compensation	0℃~50℃	
Power Supply	4×1.5V (A G13)	
Dimensions	165×26×26mm ³	60X55X23(mm ³)
Weight	63g	60g

TECHNICAL SPECIFICATION

Measuring range	0~±1999 mv
Accuracy	±5mv
Resolution	1mv
Display	4-digital LCD



KL-169-C



KL-169

ORP/REDOX TESTER



KL-169-A



KL-169-B

Model	KL-169-A	KL-169-B	KL-169-C
Power Supply	4×1.5V (AG13)	2×3V (CR2032 Battery)	4×1.5V (AG13)
Dimensions	165×26×26 (mm ³)	157×27×20 (mm ³)	170×36×23 (mm ³)
Weight	63g	46g	91g



KL-169-D



KL-169-E



KL-169-F



Model	KL-169-D	KL-169-E	KL-169-F
Power Supply	4×1.5V (AG13)	4×1.5V (AG13)	4×1.5V (AG13)
Dimensions	170×36×23 (mm ³)	188×35×35 (mm ³)	60×55×23 (mm ³)
Weight	85g	118g	62g



KL-136

Pen-type CF Meter

TECHNICAL SPECIFICATION

Model	KL-1361	KL-1362
Measuring range	0~100CF	
Resolution	1CF	
Accuracy	$\pm 2\%F.S$	
Operating Temperature	0°C~50°C	
Power Supply	4x1.5V (AG13)	2x3V (CR2032B atttery)
Calibration	1 point	
Dimensions	142x29x15(mm) [‡]	150x27x20(mm) [‡]
Weight	51g	46g



KL-1362



KL-1361



KL-018

Industrial Online pH Controller



- Front panel LED indicate
- High Input Impedance
- Isolated 4 to 20 mA recorder output.
- 0.01 pH accuracy with unbeatable performance.

TECHNICAL SPECIFICATION

Model	KL-018
Measuring range	0.00~14.00pH
Accuracy	±0.02pH
Resolution	0.01pH
Stability	0.02pH/24h
Output Current	4~20mA
Automatic Temperature Compensation	0℃~100℃

TECHNICAL SPECIFICATION

Model	KL-100
Measuring range	0.00~14.00pH
Accuracy	$\pm 0.02\text{pH}$
Resolution	0.01pH
Set Range	3.50~10.50PH
Relay Contact	5A/240VAC
Calibration	Double-point
Environment	Temperature:0~50℃ Humidity<95%
Display	4-digital LED
Input Impedance	$10^{12} \Omega$
Power Supply	AC110V or AC220V $\pm 10\%$ 50Hz
Dimensions	108×210×48 (mm ³)
Weight	550g



KL-100

Digital PH Controller





KL-201

Digital PH Controller

Wall-Mount & Hand-Held Type, Professional Quality



Applications:

Aquariums, Aquacultures, Beverage, Fish Hatcheries, Food Processing, Photography, Laboratory, Paper Industry, Swimming Pool, Plating Industry

TECHNICAL SPECIFICATION

Model	KL-201
Measuring range	0.00~14.00pH
Accuracy	$\pm(0.1\%+2 \text{ digits})$ after calibration
Resolution	0.01pH
Set Range	3.50~10.50PH
Relay Contact	5A/240VAC
Calibration	External pH4 (Slope), pH7 (Cal)
Environment	Temperature:0~50℃ Humidity<95%

TECHNICAL SPECIFICATION

Model	KL-203	
Measuring range	PH	0.00~14.00pH
	ORP	0~±1999mV
Accuracy	PH	±(0.1%+2 digits) after calibration
	ORP	
Resolution	PH	0.01 pH
	ORP	1 mV
Set Range	3.50~10.50PH	
Relay Contact	5A/240VAC	
Calibration	External pH4 (Slope), pH7 (Cal)	
Environment	Temperature:0~50℃ Humidity<95%	
Display	4-digital LED	
Input Impedance	10 ¹² Ω	
Power Supply	AC110V or AC220V ±10%50Hz	



KL-019

Industrial on-line ORP Controller



TECHNICAL SPECIFICATION

Model	KL-019
Measuring range	0~±1999mV
Accuracy	±(0.1%+2 digits) after calibration
Resolution	±1 mV
Output current	4~20mA(max charge:50 Ω)
Relay contact	two 220V5A
Environment	Temperature:0~50℃ Humidity<95%
Display	

OROMETER KL-200
Digital ORP Controller

TECHNICAL SPECIFICATION

Model	KL-200
Measuring range	0~±1999mV
Accuracy	±0.1%+2 digits
Resolution	1 mV
Set Range	-500~500 mV
Relay Contact	AC220V/5A
Environment	Temperature:0~50℃ Humidity<95%
Display	4-digital LED
Input Impedance	$10^{12} \Omega$
Power Supply	110V or 220V±10% 50Hz±2%
Dimensions	108x210x48(mm ³)
Weight	550g





KL-206

Digital ORP Controller

Wall-Mount & Hand-Held Type, Professional Quality



Applications :

Aquariums, Aquacultures, Beverage, Fish Hatcheries,
Food Processing, Photography, Laboratory, Paper Industry,
Swimming Pool, Plating Industry, Quality control, Water Conditioning,
School & colleges.

TECHNICAL SPECIFICATION

Model	KL-206
Measuring range	0~±1999mV
Accuracy	±(0.1%+2 digits) after calibration
Resolution	1 mV
Set Range	-500~500 mV
Relay Contact	5A/240VAC
Environment	Temperature:0~50℃ Humidity<95%
Display	4



KL-208

Digital Conductivity Controller

Wall-Mount & Hand-Held Type, Professional Quality

TECHNICAL SPECIFICATION

Model	KL-208
Measuring range	0~1999us/0~199.9mS
Accuracy	±(1.5%+2 digits) after calibration
Resolution	1us/ 0.1 mS
Set Range	0~1000 uS / 0~ 100.0 mS
Relay Contact	5A/240 VAC
Environment	Temperature:0~50℃ Humidity<95%
Display	4-digital LED
Input Impedance	$10^{12} \Omega$
Power Supply	110V or 220V 50/60 Hz
Dimensions	150x85x40(mm ³) (5.9x3.4x1.6 inch)



TACHOMETER KL-005/006

Tachometer



TECHNICAL SPECIFICATION

Model	KL-005	KL-006
Measuring range	60~9999r/min	20~50000r/min
Accuracy	$2 \times 10^{-4} \times N \pm 1 \text{ digit}$	
Measuring time	no limit	
Adoption time	1s(automation)	
Measuring distance	50~400mm	
Display	4-digital LED	5-digital LCD
Operating Temperature	0℃~50℃	
Battery	4×1.5V (DC) alkalinity battery	
Dimensions	78×38×180(mm ³)	

TECHNICAL SPECIFICATION

Model	KL-007
Measuring range	6~99999r/min $\pm 2r/min$
Frequency	0.5~999.99Hz $\pm 0.02Hz$
Enumerate	1~99999
Part-time	1S~10h $\pm 0.01\%$
Accuracy	$2 \times 10^{-4} \times N$ $\pm 1digit$
Store time	no limit
Adoption time	1s(automation)
Measuring distance	50~400mm
Display	5-digital LCD
Operating Temperature	0°C~50°C
Battery	4×1.5V (DC) alkalinity battery
Dimensions	200×60×24.5(mm ³)





KL-9806

Digital Mini Thermometer



- LCD display
- In / out temperature measurement
- Super-thinness design

TECHNICAL SPECIFICATION

Model	KL-9806
Measuring range	-50°C~70°C
Resolution	0.1°C
Accuracy	±1°C
Power Supply	1.5V (AG13)
Dimensions	60×55×23(mm ³)
Weight	43g



KL-9816

Folding Thermometer

TECHNICAL SPECIFICATION

Model	KL-9816
Measuring range	-50°C~125°C (-58 °F~257 °F)
Resolution	0.1°C/°F
Accuracy	±1°C or ±2°F (at 0.0°C~80°C) ±2°C or ±4°F (at -50°C~0.0°C, 80°C~125°C)
Frequency	2 or 10 second
Power Supply	1.5V (AG13)
Dimensions	155×48×22(mm ³)



- Large LCD
- Folding design
- Memory records
- Stainless steel probe

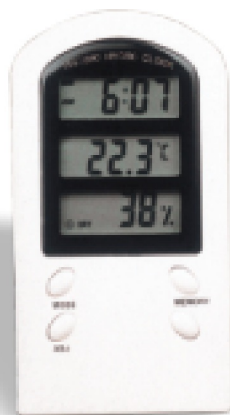
THERMOMETER

KL-9826/9836

Digital Hygro Thermometer



9826



9836

- Maximum and minimum temperature and humidity memory function with optional daily reset function.
- °C/°F range selectable at any time
- Time display

TECHNICAL SPECIFICATION

Model	KL-9826	KL-9836
Measuring range	°C	-5°C~50°C (23°F~122°F)
	RH	10%RH~99%RH
Resolution	°C	0.1(2°F)
	RH	1%RH
Accuracy	°C	±1°C
	RH	±5%RH
Display	Dual-level LCD	Threel-level LCD
Power Supply	1.5V	1.5V
Dimensions	96×110×22(mm) [‡]	140×76×16(mm) [‡]
Weight	128g	115g

Brix Industrial Fluid
Salinity
Clinical Protein(Urine)
Antifreeze/Battery/Cleaning/Fluid
Alcohol Wine
Honey Tester
Contact Lens Tester
Grape Tester
Soybean Milk Tester
Gem Tester
°OE Tester



Hand held Refractometers

Refractometers are precision optical instruments designed to measure the concentration or mixture ratio of water soluble. Easy to use, just place a few drops of juice on the prism glass and hold up to the light. And ATC refractometers automatically compensate temperature changes so the user can just drop a few drops of a juice and read.

The Hand Held Refractometers provide with a direct reading of the Scales, and have been professionally designed for testing of concentration of many kinds of solution listed as following: Juices, Beverages, Honey, Salt water, Brine, Cleaning fluid, battery fluid, Antifreeze and Industrial fluids etc.

WASTEWATER & SEWAGE PUMPS

KL-51 Water Pump

Sump pump, made of stainless steel plate and fibre-reinforced plastic, resistant to corrosion



Submersible Vortex Pump

TECHNICAL SPECIFICATION

Model	KL-51
Discharge Bore	50 mm
Motor Output	0.15 kW
Phase	Single
Revolution	3000/3600 50Hz/60Hz/min
Starting Method	Capacitor Run
Max Head	5.2/5.5 50Hz/60Hz /m
Max Capacity	0.22m ³ /min
Impellent Passage	35 mm
Standard Cable Length	3m
Weight	4.8 kg

INSTRUMENT GENERAL CATALOG



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POMETER

TDSMETER

ECMETER

OROMETER

THERMMETER

TACHMETER