

Product Catalogue

Water Quality Meters and Laboratory Instruments

- pH/ORP/Ion/Water Hardness Meters
- Conductivity/TDS/Salinity/Resistivity/Conductivity Ash Meters
- Dissolved Oxygen/BOD/OUR/SOUR Meters
- Turbidity Meters
- Polarimeters
- Magnetic Stirrers
- Electrodes



PHscan Series Pocket pH Tester



PHscan10/20 Features

- 2 points push-button calibration with auto-buffer recognition
- Hold function momentarily freezes reading for easy viewing and recording
- Auto-Power Off effectively conserves battery life
- Replaceable electrode module reduces maintenance and replacement cost



PHscan30 Features

- 1 to 3 points calibration with automatic recognition for USA and NIST buffers
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults



PHscan40 Features

- BNC connector is easy to connect a variety of pH electrodes
- 1 to 3 points calibration with automatic recognition for USA and NIST buffers
- Manual temperature compensation provides a wide range of temperature input
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults



Optional pH Electrodes



E-PHscan-S

- Circular pH-sensitive membrane
- Suitable for measuring the liquids



E-PHscan-F

- Flat surface pH-sensitive membrane
- Suitable for measuring the semisolids



E-PHscan-L

- Flat surface pH-sensitive membrane
- Suitable for measuring the small volume samples

Specifications

Model		PHscan10	PHscan20	PHscan30	PHscan40
pH	Range	0.0~14.0pH	0.00~14.00pH	-1.00~15.00pH	-1.00~15.00pH
	Resolution	0.1pH	0.01pH	0.01pH	0.01pH
	Accuracy	±0.1pH	±0.05pH	±0.01pH	±0.01pH
	Calibration Points	2 points	2 points	1 to 3 points	1 to 3 points
	pH Buffer Options	4.01/7.00/10.01	4.01/7.00/10.01	4.01/6.86/7.00/9.18/10.01	4.01/6.86/7.00/9.18/10.01
Temperature	Range	—	0~60°C	0~60°C/32~140°F	0~100°C/32~212°F
	Resolution	—	1°C	0.1°C/0.1°F	0.5°C/0.5°F
	Accuracy	—	±1°C	±1°C/±1.8°F	—
	Offset Calibration	—	—	1 point, reading ±10°C	—
Other Specifications	Temperature Compensation	—	0~60°C, automatic	0~60°C, automatic	0~100°C, manual
	Hold Function	Manual		Manual or auto-endpoint	
	Auto-Off	8 minutes after last key pressed		8 minutes after last key pressed	
	Operating Temperature	0~60°C		0~60°C	
	Display	Single-line LCD (21×21mm)		Dual-line LCD (21×21mm)	
	Power Requirements	3×1.5V LR44 micro alkaline batteries		2×1.5V AAA batteries	
	Battery Life	Approximately 150 hours of continuous use		Approximately 200 hours of continuous use	
	Dimensions	185(L)×40(Dia.)mm		185(L)×40(Dia.)mm	175(L)×40(Dia.)mm
Weight		100g		100g	

Ordering Information

- PHscan10/20/30-E: Tester, pH buffer sachets and plastic box
- PHscan10/20/30-K: Tester, pH buffer solutions and carrying case
- PHscan40: Tester, E201-BNC plastic body pH electrode, pH buffer solutions and carrying case

ORPscan Series Pocket ORP Tester



Optional ORP Electrodes

- 501: Suitable for general purpose applications
- 504: Suitable for high temperature samples (<100°C/212°F)

Features

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements
- Auto-Read function senses and locks the measurement endpoint
- Auto-Power Off effectively conserves battery life
- Reset function automatically resumes all settings back to the factory defaults



Ordering Information

- ORPscan10: Tester and plastic box
- ORPscan20: Tester, 501 ORP electrode, solution storage bottles and carrying case



Specifications

Model		ORPscan10	ORPscan20
ORP	mV Range	±999mV	±999mV
	Relative mV Range	±999mV	±999mV
	Resolution	1mV	1mV
	Accuracy	±2mV	±2mV
	Calibration Points	1 point	1 point
Other Specifications	Sensor Type	E-ORPscan-S ORP electrode	5 series ORP electrodes
	Sensor Material	Platinum sheet	Platinum pin or platinum band
	Connector	—	BNC
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Auto-Off	8 minutes after last key pressed	8 minutes after last key pressed
	Operating Temperature	0-60°C	0-60°C
	Display	Dual-line LCD (21×21mm)	Dual-line LCD (21×21mm)
	Power Requirements	2×1.5V AAA batteries	2×1.5V AAA batteries
	Battery Life	Approximately 200 hours of continuous use	Approximately 200 hours of continuous use
	Dimensions	185(L)×40(Dia.)mm	175(L)×40(Dia.)mm
	Weight	100g	100g

ECscan Series Pocket Conductivity Tester



ECscan10 Features

- 1 point push-button calibration allows using the custom calibration solution
- Platinum conductivity cell provides the quick and reliable measurement results
- Automatic temperature compensation corrects conductivity measurement to reference temperature
- Hold function momentarily freezes reading for easy viewing and recording
- Auto-Power Off effectively conserves battery life
- Replaceable electrode module reduces maintenance and replacement cost

Applications

- ECscan10L : Suitable for measuring the low conductivity liquids
- ECscan10M: Suitable for general purpose applications
- ECscan10H : Suitable for measuring the high conductivity liquids



ECscan20/30/40 Features

- Multi-range conductivity tester contains the TDS and salinity measurement modes
- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, TDS conversion factor, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults

Measurement Parameters

- ECscan20: Conductivity, temperature
- ECscan30: Conductivity, TDS, temperature
- ECscan40: Conductivity, TDS, salinity, temperature



Ordering Information

- ECscan10L/M/H: Tester and plastic box
- ECscan20/30/40: Tester, conductivity standard solutions and carrying case

Replaceable Conductivity Electrodes



- E-ECscan-C1-100K
- 2-pole platinum conductivity cell
 - Suitable for ECscan10L/M/H testers



- E-ECscan-C1-10K
- 2-pole platinum conductivity cell
 - Suitable for ECscan20/30/40 testers

Specifications

Model		ECscan10L	ECscan10M	ECscan10H	ECscan20	ECscan30	ECscan40
Conductivity	Range	1.0~199.9μS/cm	10~1999μS/cm	0.1~19.99mS/cm	0~20.00, 200.0, 2000μS/cm, 20.00mS/cm		
	Resolution	0.1μS/cm	1μS/cm	0.01mS/cm	0.01, 0.1, 1		
	Accuracy	±1% F.S.	±1% F.S.	±1% F.S.	±1% F.S.		
	Calibration Points	1 point	1 point	1 point	1 to 3 points		
	Calibration Solutions	146.5μS/cm	1413μS/cm	12.88mS/cm	84μS/cm, 1413μS/cm, 12.88mS/cm		
TDS	Range	—	—	—	—	0~10.00, 100.0, 1000ppm, 20.00ppt	
	Resolution	—	—	—	—	0.01, 0.1, 1	
	Accuracy	—	—	—	—	±1% F.S.	
	TDS Factor	—	—	—	—	0.1~1.0 (default 0.5)	
Salinity	Range	—	—	—	—	—	0.00~10.00ppt
	Resolution	—	—	—	—	—	0.01ppt
	Accuracy	—	—	—	—	—	±1% F.S.
Temperature	Range	0~50°C			0~60°C/32~140°F		
	Resolution	1°C			0.1°C/0.1°F		
	Accuracy	±1°C			±1°C/±1.8°F		
	Offset Calibration	—			1 point, reading ±10°C		
Other Specifications	Temperature Compensation	0~50°C, automatic			0~60°C, automatic		
	Temperature Coefficient	2%/°C			2%/°C		
	Reference Temperature	25°C			25°C		
	Cell Constant	K=1			K=1		
	Hold Function	Manual			Manual or auto-endpoint		
	Auto-Off	8 minutes after last key pressed			8 minutes after last key pressed		
	Operating Temperature	0~60°C			0~60°C		
	Display	Single-line LCD (21×21mm)			Dual-line LCD (21×21mm)		
	Power Requirements	3×1.5V LR44 micro alkaline batteries			2×1.5V AAA batteries		
	Battery Life	Approximately 150 hours of continuous use			Approximately 200 hours of continuous use		
Dimensions		185(L)×40(Dia.)mm			185(L)×40(Dia.)mm		
Weight		100g			100g		

TDSscan Series Pocket TDS Tester



TDSscan10 Features

- 1 point push-button calibration allows using the custom calibration solution
- Hold function momentarily freezes reading for easy viewing and recording
- Auto-Power Off effectively conserves battery life
- Replaceable electrode module reduces maintenance and replacement cost

TDSscan20 Features

- 1 to 3 points calibration with automatic recognition for TDS standards
- Auto-Read function senses and locks the measurement endpoint
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, TDS conversion factor, etc.
- Reset function automatically resumes all settings back to the factory defaults



Ordering Information

- TDSscan10L/M/H: Tester and plastic box
- TDSscan20: Tester, TDS standard solutions and carrying case

Specifications

Model		TDSscan10L	TDSscan10M	TDSscan10H	TDSscan20
TDS	Range	0.5~100.0ppm	5~1000ppm	0.05~10.00ppt	0~10.00, 100.0, 1000ppm, 20.00ppt
	Resolution	0.1ppm	1ppm	0.01ppt	0.01, 0.1, 1
	Accuracy	±1% F.S.	±1% F.S.	±1% F.S.	±1% F.S.
	Calibration Points	1 point	1 point	1 point	1 to 3 points
Temperature	Range	0~50°C		0~60°C/32~140°F	
	Resolution	1°C		0.1°C/0.1°F	
	Accuracy	±1°C		±1°C/±1.8°F	
	Offset Calibration	—		1 point, reading ±10°C	
Other Specifications	Temperature Compensation	0~50°C, automatic		0~60°C, automatic	
	TDS Factor	0.4~1.0 (default 0.5)		0.1~1.0 (default 0.5)	
	Hold Function	Manual		Manual or auto-endpoint	
	Auto-Off	8 minutes after last key pressed		8 minutes after last key pressed	
	Operating Temperature	0~60°C		0~60°C	
	Display	Single-line LCD (21×21mm)		Dual-line LCD (21×21mm)	
	Power Requirements	3×1.5V LR44 micro alkaline batteries		2×1.5V AAA batteries	
	Battery Life	Approximately 150 hours of continuous use		Approximately 200 hours of continuous use	
	Dimensions	185(L)×40(Dia.)mm		185(L)×40(Dia.)mm	
	Weight	100g		100g	

SALscan Series Pocket Salinity Tester



Features

- Multi-parameter salinity tester contains the conductivity measurement mode
- Platinum conductivity cell provides the quick and reliable measurement results
- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults



Ordering Information

SALscan10/20: Tester, conductivity standard solutions and carrying case

Specifications

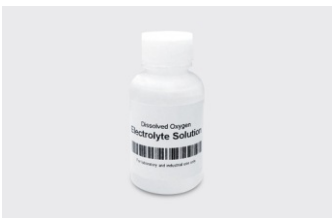
	Model	SALscan10	SALscan20
Salinity	Range	0.00~10.00ppt	0.00~80.00ppt
	Resolution	0.01ppt	0.01ppt
	Accuracy	±1% F.S.	±1% F.S.
Conductivity	Range	0~20.00, 200.0, 2000μS/cm, 20.00mS/cm	100.0~2000μS/cm, 20.00, 200.0mS/cm
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	±1% F.S.	±1% F.S.
	Calibration Points	1 to 3 points	1 to 3 points
	Calibration Solutions	84μS/cm, 1413μS/cm, 12.88mS/cm	1413μS/cm, 12.88mS/cm, 111.8mS/cm
Temperature	Range	0~60°C/32~140°F	0~60°C/32~140°F
	Resolution	0.1°C/0.1°F	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F	±1°C/±1.8°F
	Offset Calibration	1 point, reading ±10°C	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0~60°C, automatic	0~60°C, automatic
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Auto-Off	8 minutes after last key pressed	8 minutes after last key pressed
	Operating Temperature	0~60°C	0~60°C
	Display	Dual-line LCD (21×21mm)	Dual-line LCD (21×21mm)
	Power Requirements	2×1.5V AAA batteries	2×1.5V AAA batteries
	Dimensions	185(L)×40(Dia.)mm	185(L)×40(Dia.)mm
	Weight	100g	100g

D0scan10 Pocket Dissolved Oxygen Tester



Features

- Economical dissolved oxygen tester is supplied with a polarographic electrode
- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, concentration unit, temperature unit, etc.
- Reset function automatically resumes all settings back to the factory defaults



Ordering Information

DOscan10: Tester, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap and carrying case

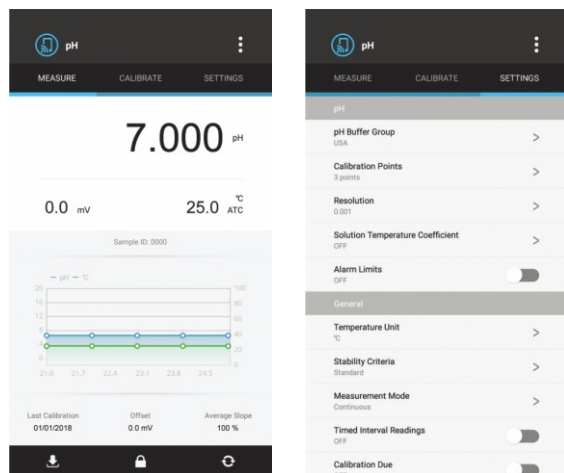
Specifications

Model		DOscan10
DO	Range	0.0~20.0mg/L or ppm
	Resolution	0.1mg/L
	Accuracy	±0.5mg/L
% saturation	Range	0.0~200.0%
	Resolution	0.1%
	Accuracy	±2.0%
Other Specifications	Calibration Points	1 or 2 points
	Temperature Compensation	0~40°C/32~104°F, automatic
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual
	Salinity Correction	0.0~35.0g/L, manual
	Hold Function	Manual or auto-endpoint
	Auto-Off	8 minutes after last key pressed
	Operating Temperature	0~60°C
	Display	Dual-line LCD (21×21mm)
	Power Requirements	2×1.5V AAA batteries
	Battery Life	Approximately 200 hours of continuous use
	Dimensions	175(L)×40(Dia.)mm
	Weight	100g

S Series Bluetooth Water Quality Tester



High-performance bluetooth water quality testers, including the 6 models. The meters are suitable for Android smartphone or tablet.



Features

S10 pH Tester

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset
- Solution temperature coefficient compensates for the pure water samples and references the pH to 25°C

S20 ORP Tester

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

S30 Ion Tester

- 2 to 5 points calibration, including the 8 concentration points can be selected
- Electrode management is capable of storing and recalling up to 3 electrode slopes
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable ion measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm, mg/L, mol/L or mmol/L)

S40 Water Hardness Tester

- 2 to 5 points calibration from low to high concentrations
- Selectable water hardness units - German degree (°dH), English degree (°e), French degree (°fH), gpg, mg/L and mmol/L

S50 Conductivity Tester

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, temperature compensation type (linear/non-linear/EP/USP), temperature compensation coefficient, pure water compensation coefficient, reference temperature (20/25°C) and TDS conversion factor

S60 Dissolved Oxygen Tester

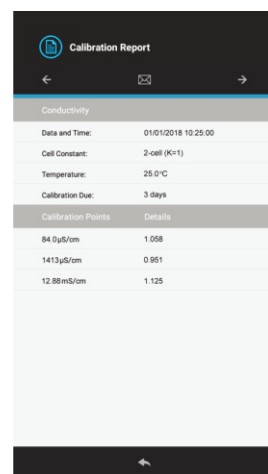
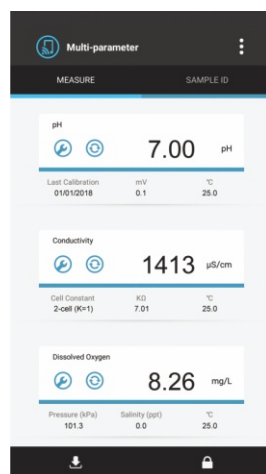
- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Selectable testing time, beginning/ending DO are used for OUR/SOUR calculations

General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Timed Interval Readings sends the measurement data to memory or printer
- Limit Alarm automatically alerts when reading exceeds the specified range
- Calibration due alarm prompts user to calibrate the tester regularly
- Password protection prevents the unauthorized calibration and settings
- Multiparameter measurement allows up to 3 testers connected to device and displays the measured values
- Reset function automatically resumes all settings back to the factory defaults

**Ordering Information**

- S10: Tester, pH buffer solutions and carrying case
- S20: Tester, solution storage bottles and carrying case
- S30: Tester, ion selective electrode, standard solutions (100/1000ppm), ionic strength adjuster and carrying case
- S40: Tester, water hardness electrode, standard solutions (0.01/0.1 mol/L) and carrying case
- S50: Tester, conductivity standard solutions and carrying case
- S60: Tester, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap and carrying case



Specifications

Model		S10
pH	Range	-2.000~20.000pH
	Resolution	0.001, 0.01, 0.1pH, selectable
	Accuracy	±0.002pH
	Calibration Points	1 to 5 points
	pH Buffer Options	USA, NIST, DIN, 5 custom buffers
	Temperature Compensation	0~100°C/32~212°F, automatic
Solution Temperature Coefficient		25°C
mV	Range	±2000.0mV
	Resolution	0.1, 1mV, selectable
	Accuracy	±0.2mV

Model		S20
ORP	Range	±2000.0mV
	Resolution	0.1, 1mV, selectable
	Accuracy	±0.2mV
	Calibration Points	1 point

Model		S30
Ion	Range	0.001~30000 (depending on the range of ISE)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
	Measurement Units	ppm, mg/L, mol/L, mmol/L
	Calibration Points	2 to 5 points
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000
	Temperature Compensation	0~100°C/32~212°F, manual
	Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction
	Electrode Management	1 to 3 electrodes
mV	Range	±2000.0mV
	Resolution	0.1, 1mV, selectable
	Accuracy	±0.2mV

Model		S40
Water Hardness	Range	0.05~200mmol/L, 0~1122°dH, 0~1404°e, 0~2000°fH, 0~1170gpg, 0~8020mg/L (Ca ²⁺), 0~20000mg/L (CaCO ₃), 0~11220mg/L (CaO)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±1% F.S.
	Measurement Units	mmol/L, °dH, °e, °fH, gpg, mg/L (Ca ²⁺), mg/L (CaCO ₃), mg/L (CaO)
	Calibration Points	2 to 5 points
	Calibration Solutions	0.01, 0.1, 1, 10, 100mmol/L
	Temperature Compensation	0~50°C/32~122°F, manual
mV	Range	±2000.0mV
	Resolution	0.1, 1mV, selectable
	Accuracy	±0.2mV

Model		S50-M	S50-H
Conductivity	Range	0~20.00, 200.0, 2000μS/cm, 20.00mS/cm	100.0~2000μS/cm, 20.00, 200.0mS/cm
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	±0.5% F.S.	±0.5% F.S.
	Calibration Points	1 to 3 points	1 to 3 points
	Calibration Solutions	84μS/cm, 1413μS/cm, 12.88mS/cm	1413μS/cm, 12.88mS/cm, 111.8mS/cm
	Temperature Compensation	0~100°C/32~212°F, automatic	0~100°C/32~212°F, automatic
	Temperature Coefficient	Linear (0.0~10.0%/°C), non-linear, USP, EP	Linear (0.0~10.0%/°C), non-linear, USP, EP
	Pure Water Compensation	Yes	Yes
	Reference Temperature	20/25°C	20/25°C
	Cell Constant	K=1	K=10
TDS	Range	0~10.00, 100.0, 1000mg/L, 20.00g/L	0~100.0, 1000mg/L, 10.00, 200.0g/L
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	±1% F.S.	±1% F.S.
	TDS Factor	0.01~1.00 (default 0.5)	0.01~1.00 (default 0.5)
Salinity	Range	0.00~10.00psu, 0.00~10.00ppt, 0.00~1.00%	0.00~42.00psu, 0.00~80.00ppt, 0.00~8.00%
	Resolution	0.01	0.01
	Accuracy	±1% F.S.	±1% F.S.
Resistivity	Range	0.00~10.00MΩ	0.00~1.00MΩ
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	±1% F.S.	±1% F.S.
Conductivity Ash	Range	0~100%	0~100%
	Resolution	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	±1% F.S.	±1% F.S.
	Measurement Modes	Refined sugar or raw sugar	Refined sugar or raw sugar

Model		S60
Dissolved Oxygen	Range	0.00~20.00mg/L, 0.0~200.0% saturation
	Resolution	0.01mg/L, 0.1%
	Accuracy	±0.2mg/L, ±2.0%
	Calibration Points	1 or 2 points
	Temperature Compensation	0~50°C/32~122°F, automatic
	Barometric Pressure Correction	60.0~113.3kPa/450~850mmHg, manual
	Salinity Correction	0.0~50.0g/L, manual
	Measurement Modes	Dissolved oxygen, BOD, oxygen uptake rate, specific oxygen uptake rate

For all S series testers		
General Specifications	Stability Criteria	Fast, standard, slow
	Measurement Modes	Continuous or auto-read
	Timed Interval Readings	10, 30, 60, 300 seconds or off
	Calibration Due Alarm	1 to 99 days or off
	Data Transfer	Send to memory or printer
	Power Requirements	2×1.2V lithium batteries or AAA batteries

Bante 2 Series Portable pH/ORP Meter

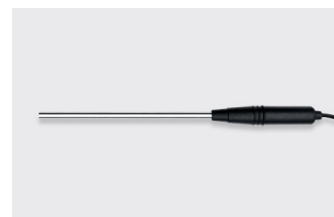


Measurement Parameters

- Bante 220: pH, mV, temperature
- Bante 221: pH, mV, relative mV, temperature

Bante 220 Features

- 1 to 3 points calibration with automatic recognition for USA and NIST buffers
- Automatic electrode diagnosis helps user decide whether to replace the pH electrode
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Bante 221 Features

pH

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset
- Automatic temperature compensation ensures accurate readings over the entire range
- Calibration due alarm prompts user to calibrate the meter regularly

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

General Features

- Auto-Read function senses and locks the measurement endpoint
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface is easy to transfer data to PC
- Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly



Specifications

Model		Bante 220	Bante 221
pH	Range	-2.00~20.00pH	-2.000~20.000pH
	Resolution	0.01pH	0.001, 0.01, 0.1pH, selectable
	Accuracy	±0.01pH	±0.002pH
	Calibration Points	1 to 3 points	1 to 5 points
	pH Buffer Options	USA (4.01/7.00/10.01), NIST (4.01/6.86/9.18)	USA, NIST, DIN, 2 custom buffers
ORP	mV Range	±1999mV	±1999.9mV
	Relative mV Range	—	±1999.9mV
	Resolution	1mV	0.1, 1mV, selectable
	Accuracy	±1mV	±0.2mV
	Calibration Points	—	1 point
Temperature	Range	0~105°C/32~221°F	0~105°C/32~221°F
	Resolution	0.1°C/0.1°F	0.1°C/0.1°F
	Accuracy	±0.5°C/±0.9°F	±0.5°C/±0.9°F
	Offset Calibration	1 point, reading ±10°C	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	0~100°C, manual or automatic
	Stability Criteria	—	Low or high
	Calibration Due Alarm	—	1 to 31 days or off
	Slope/Offset Display	Yes	Yes
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Auto-Off	30 minutes after last key pressed	10, 20 or 30 minutes after last key pressed
	Memory	100 data sets	500 data sets
	Communication Interface	USB	USB
	Connector	BNC, 3.5 mm jack socket	BNC, 3.5 mm jack socket
	Display	Custom LCD (80×60 mm)	Custom LCD (80×60 mm)
	Power Requirements	3×1.5V AA batteries or DC5V power adapter	3×1.5V AA batteries or DC5V power adapter
	Battery Life	Approximately 150 hours (Turn off the backlight)	Approximately 150 hours (Turn off the backlight)
	Dimensions	170(L)×85(W)×30(H) mm	170(L)×85(W)×30(H) mm
	Weight	300g	300g

Ordering Information

- Bante 220/221-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante 220/221-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante 221-**ORP**: Meter, E201-BNC plastic body pH electrode, 501 ORP electrode, temperature probe, pH buffer solutions and carrying case

Bante 3 Series Portable pH/Ion Meter



Measurement Parameters

- Bante 320: pH, mV, relative mV, ion concentration, temperature
- Bante 321: Ion concentration, mV, temperature

Features

pH

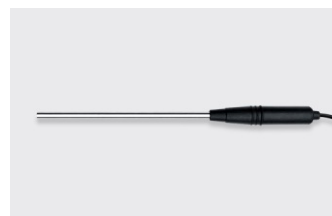
- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

- 2 to 5 points calibration, including the 8 concentration points can be selected
- Direct ion concentration readout simplifies the measurement process
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency



General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface is easy to transfer data to PC
- Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly

Optional Ion Selective Electrodes

Ammonium (NH_4^+), bromide (Br^-), cadmium (Cd^{2+}), calcium (Ca^{2+}), chloride (Cl^-), cupric (Cu^{2+}), cyanide (CN^-), fluoride (F^-), iodide (I^-), lead (Pb^{2+}), nitrate (NO_3^-), potassium (K^+), silver (Ag^+), sodium (Na^+), sulphide (S^{2-}) and ammonia (NH_3)



Specifications

Model			Bante 320	Bante 321
pH	Range	-2.000~20.000pH	•	—
	Resolution	0.001, 0.01, 0.1pH, selectable	•	—
	Accuracy	±0.002pH	•	—
	Calibration Points	1 to 5 points	•	—
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	—
Ion	Range	0.001~19999 (depending on the range of ISE)	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•	•
	Measurement Units	ppm, mg/L, mol/L, mmol/L	•	•
	Calibration Points	2 to 5 points	•	•
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000	•	•
ORP	mV Range	±1999.9mV	•	•
	Relative mV Range	±1999.9mV	•	—
	Resolution	0.1, 1mV, selectable	•	•
	Accuracy	±0.2mV	•	•
	Calibration Points	1 point	•	—
Temperature	Range	0~105°C/32~221°F	•	•
	Resolution	0.1°C/0.1°F	•	•
	Accuracy	±0.5°C/±0.9°F	•	•
	Offset Calibration	1 point, reading ±10°C	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•
	Stability Criteria	Low or high	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•
	Slope/Offset Display	Yes	•	•
	Hold Function	Manual or auto-endpoint	•	•
	Auto-Off	10, 20 or 30 minutes after last key pressed	•	•
	Memory	500 data sets	•	•
	Communication Interface	USB	•	•
	Connector	BNC, 3.5 mm jack socket	•	•
	Display	Custom LCD (80×60 mm)	•	•
	Power Requirements	3×1.5V AA batteries or DC5V power adapter	•	•
	Battery Life	Approximately 150 hours (Turn off the backlight)	•	•
	Dimensions	170(L)×85(W)×30(H) mm	•	•
	Weight	300g	•	•

Ordering Information

- Bante320-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante320-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante321: Meter, ion selective electrode, temperature probe, standard solutions (100/1000ppm), ionic strength adjuster and carrying case

Bante 322 Portable Water Hardness Meter



Features

- 2 to 5 points calibration from low to high concentrations
- Selectable water hardness units - mmol/L, mg/L, German degree (°dH), English degree (°e) and French degree (°f)
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, stability criteria, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Ordering Information

Bante322: Meter, water hardness electrode, temperature probe, standard solutions(0.01/ 0.1mol/L), ionic strength adjuster and carrying case

Specifications

Model		Bante 322
Water Hardness	Range	0.05~200mmol/L, 0~1122°dH, 0~2000°fH, 0~1404°e, 0~8020mg/L (Ca ²⁺), 0~19999mg/L (CaCO ₃), 0~11220mg/L (CaO)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±1% F.S.
	Calibration Points	2 to 5 points (0.01, 0.1, 1, 10, 100mmol/L)
Temperature	Range	0.0~105.0°C
	Resolution	0.1°C
	Accuracy	±0.5°C
	Offset Calibration	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0~50°C, manual or automatic
	Hold Function	Manual or auto-endpoint
	Auto-Off	10, 20 or 30 minutes after last key pressed
	Memory	500 data sets
	Communication Interface	USB
	Connector	BNC, 3.5 mm jack socket
	Display	Custom LCD (80×60 mm)
	Power Requirements	3×1.5V AA batteries or DC5V power adapter
	Dimensions	170(L)×85(W)×30(H) mm
	Weight	300g

Bante 5 Series Portable Conductivity Meter



Measurement Parameters

- Bante 520: Conductivity, temperature
- Bante 530: Conductivity, TDS, temperature
- Bante 531: Conductivity, salinity, temperature
- Bante 540: Conductivity, TDS, salinity, resistivity, temperature

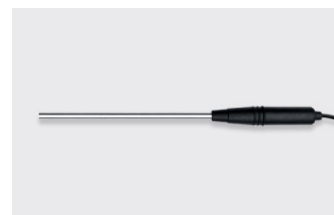
Bante 520 Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, reference temperature, linear/non-linear and pure water compensation modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Bante 530/531/540 Features

- 1 to 5 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface is easy to transfer data to PC
- Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly



Specifications

Model			Bante 520	Bante 530	Bante 531	Bante 540
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0mS/cm	•	•	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	•
	Accuracy	$\pm 0.5\%$ F.S.	•	•	•	•
	Calibration Points	1 to 3 points (Bante 520), 1 to 5 points (Bante 530/531/540)	•	•	•	•
	Calibration Solutions	10 μ S/cm, 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm, 111.8mS/cm	•	•	•	•
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	—	•	—	•
	Resolution	0.01, 0.1, 1	—	•	—	•
	Accuracy	$\pm 1\%$ F.S.	—	•	—	•
	TDS Factor	0.1~1.0 (default 0.5)	—	•	—	•
Salinity	Range	0.00~42.00psu, 0.00~80.00ppt	—	—	•	•
	Resolution	0.01	—	—	•	•
	Accuracy	$\pm 1\%$ F.S.	—	—	•	•
Resistivity	Range	0.00~20.00M Ω	—	—	—	•
	Resolution	0.01	—	—	—	•
	Accuracy	$\pm 1\%$ F.S.	—	—	—	•
Temperature	Range	0~105°C/32~221°F	•	•	•	•
	Resolution	0.1°C/0.1°F	•	•	•	•
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	•	•	•	•
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$	•	•	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•	•	•
	Temperature Coefficient	Linear (0.0~10.0%/°C), non-linear, pure water	•	•	•	•
	Reference Temperature	20/25°C	•	•	•	•
	Cell Constant	K=0.1, 1, 10	•	•	•	•
	Stability Criteria	Low or high	—	•	•	•
	Calibration Due Alarm	1 to 31 days or off	—	•	•	•
	Hold Function	Manual or auto-endpoint	•	•	•	•
	Auto-Off	30 minutes after last key pressed (Bante 520)	•	—	—	—
		10, 20 or 30 minutes after last key pressed (Bante 530/531/540)	—	•	•	•
	Memory	100 data sets (Bante 520), 500 data sets (Bante 530/531/540)	•	•	•	•
	Communication Interface	USB	•	•	•	•
	Connector	6-pin nimi-DIN, 3.5mm jack socket	•	•	•	•
	Display	Custom LCD (80×60 mm)	•	•	•	•
	Power Requirements	3×1.5V AA batteries or DC5V power adapter	•	•	•	•
	Battery Life	Approximately 150 hours (Turn off the backlight)	•	•	•	•
	Dimensions	170(L)×85(W)×30(H)mm	•	•	•	•
	Weight	300g	•	•	•	•

Ordering Information

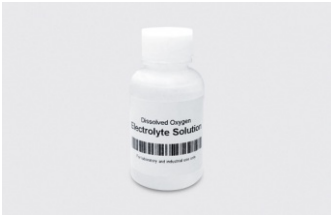
- Bante 520/530/531/540-**S** (for general purpose applications): Meter, CON-1 conductivity electrode, temperature probe, standard solutions and carrying case
- Bante 520/530/531/540-**DL** (for low conductivity measurements): Meter, CON-0.1 and CON-1 conductivity electrodes, temperature probe, standard solutions, carrying case
- Bante 520/530/531/540-**DH** (for high conductivity measurements): Meter, CON-1 and CON-10 conductivity electrodes, temperature probe, standard solutions, carrying case

Bante 8 Series Portable Dissolved Oxygen Meter



Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Auto-Power Off effectively conserves battery life.
- Setup menu allows setting the number of calibration points, resolution, temperature unit, concentration unit, stability criteria, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Ordering Information

Bante820/821: Meter, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap and carrying case

Specifications

Model		Bante 820	Bante 821
DO	Range	0.00~20.00mg/L, 0.0~200.0% saturation	0.00~20.00mg/L, 0.0~200.0% saturation
	Resolution	0.01mg/L, 0.1%	0.01mg/L, 0.1%
	Accuracy	±0.5mg/L, ±2.0%	±0.2mg/L, ±2.0%
Other Specifications	Calibration Points	1 or 2 points	1 or 2 points
	Temperature Compensation	0~50°C/32~122°F, automatic	0~50°C/32~122°F, automatic
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual	60.0~112.5kPa/450~850mmHg, manual
	Salinity Correction	0.0~50.0g/L, manual	0.0~50.0g/L, manual
	Stability Criteria	—	Low or high
	Calibration Due Alarm	—	1 to 31 days or off
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Auto-Off	30 minutes after last key pressed	10, 20 or 30 minutes after last key pressed
	Memory	100 data sets	500 data sets
	Communication Interface	USB	USB
	Connector	6-pin nimi-DIN	6-pin nimi-DIN
	Display	Custom LCD (80×60 mm)	Custom LCD (80×60 mm)
	Power Requirements	3×1.5V AA batteries or DC5V power adapter	3×1.5V AA batteries or DC5V power adapter
	Dimensions	170(L)×85(W)×30(H) mm	170(L)×85(W)×30(H) mm
	Weight	300g	300g

Bante 9 Series Portable Multiparameter Water Quality Meter



Features

pH

- Multiparameter water quality meter is equipped with a 3.5 inches backlit LCD display
- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

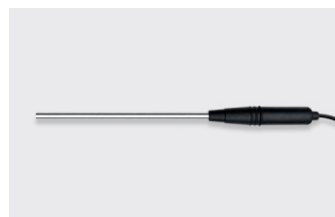
- 2 to 5 points calibration, including the 8 concentration points can be selected
- Direct ion concentration readout simplifies the measurement process
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency

Conductivity/TDS/Salinity/Resistivity

- 1 to 5 points calibration with automatic recognition for conductivity standards
- Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic electrode diagnosis shows the calibration points and factors

Dissolved Oxygen

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error



General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface is easy to transfer data to PC
- Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly



Measurement Parameters

- Bante 900P: pH, mV, relative mV, ion concentration, conductivity, TDS, salinity, resistivity, DO, temperature
- Bante 901P: pH, mV, conductivity, TDS, temperature
- Bante 902P: pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature
- Bante 903P: pH, mV, relative mV, DO, temperature
- Bante 904P: Conductivity, TDS, salinity, resistivity, DO, temperature

Specifications

Model			Bante 900P	Bante 901P	Bante 902P	Bante 903P	Bante 904P
pH	Range	-2.000~20.000pH	•	•	•	•	—
	Resolution	0.001, 0.01, 0.1pH, selectable	•	•	•	•	—
	Accuracy	±0.002pH	•	•	•	•	—
	Calibration Points	1 to 5 points	•	•	•	•	—
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	•	•	•	—
ORP	Range	±1999.9mV	•	•	•	•	—
	Resolution	0.1, 1mV, selectable	•	•	•	•	—
	Accuracy	±0.2mV	•	•	•	•	—
	Calibration Points	1 point	•	—	•	•	—
Ion	Range	0.001~19999 (depending on the range of ISE)	•	—	—	—	—
	Resolution	0.001, 0.01, 0.1, 1	•	—	—	—	—
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•	—	—	—	—
	Measurement Units	ppm, mg/L, mol/L, mmol/L	•	—	—	—	—
	Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•	—	—	—	—
Conductivity	Range	0.01~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm	•	•	•	—	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±0.5% F.S.	•	•	•	—	•
	Calibration Points	1 to 5 points	•	•	•	—	•
	Calibration Solutions	10µS/cm, 84µS/cm, 1413µS/cm, 12.88mS/cm, 111.8mS/cm	•	•	•	—	•
	Temperature Coefficient	Linear (0.0~10.0%/°C), pure water	•	•	•	—	•
	Reference Temperature	20/25°C	•	•	•	—	•
	Cell Constant	K=0.1, 1, 10 or custom	•	•	•	—	•
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	•	•	•	—	•
	Resolution	0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±1% F.S.	•	•	•	—	•
	TDS Factor	0.1~1.0 (default 0.5)	•	•	•	—	•
Salinity	Range	0.00~42.00psu, 0.00~80.00ppt	•	—	•	—	•
	Resolution	0.01	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
Resistivity	Range	0.00~20.00MΩ	•	—	•	—	•
	Resolution	0.01	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
DO	Range	0.00~20.00mg/L, 0.0~200.0% saturation	•	—	—	•	•
	Resolution	0.01mg/L, 0.1%	•	—	—	•	•
	Accuracy	±0.2mg/L, ±2.0%	•	—	—	•	•
	Calibration Points	1 or 2 points	•	—	—	•	•
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual	•	—	—	•	•
	Salinity Correction	0.0~50.0g/L, manual	•	—	—	•	•
General Spec.	Temperature Compensation	0~100°C/32~212°F, manual or automatic	•	•	•	•	•
	Memory	500 data sets, USB communication interface	•	•	•	•	•
	Power Requirements	3×1.5V AA batteries or DC5V power adapter	•	•	•	•	•
	Dimensions and Weight	170(L)×85(W)×30(H)mm, 300g	•	•	•	•	•

A120/130/131 Laboratory pH/ORP/Ion Meter



Measurement Parameters

- A120: pH, mV, relative mV, temperature
- A130: pH, mV, relative mV, ion concentration, water hardness, temperature
- A131: Ion concentration, water hardness, mV, temperature

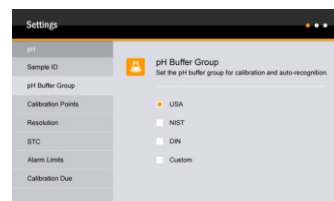
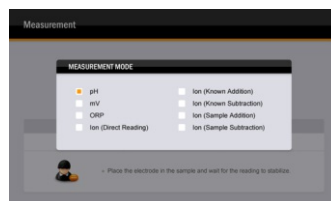
Features

pH

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset
- Solution temperature coefficient compensates for the pure water samples and references the pH to 25°C

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements



Ion Concentration

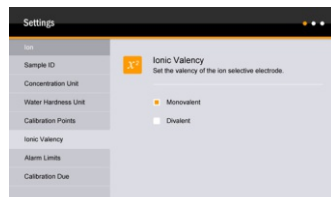
- 2 to 5 points calibration, including the 8 concentration points can be selected
- Electrode management is capable of storing and recalling up to 3 electrode slopes
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable ion measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm, mg/L, mol/L or mmol/L)

Water Hardness

- 2 to 5 points calibration from low to high concentrations
- Selectable measurement units (German degree, English degree, French degree, mmol/L and mg/L) are used for professional water hardness measurements

General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Timed Interval Readings sends the measurement data to a PC or printer
- Limit Alarm automatically alerts when reading exceeds the specified range
- Calibration due alarm prompts user to calibrate the meter regularly
- Password protection prevents the unauthorized calibration and settings
- Expanded memory stores or recalls up to 1000 data sets
- Reset function automatically resumes all settings back to the factory defaults



Specifications

Model			A120	A130	A131
pH	Range	-2.000~20.000pH	•	•	—
	Resolution	0.001, 0.01, selectable	•	•	—
	Accuracy	±0.002pH	•	•	—
	Calibration Points	1 to 5 points	•	•	—
	pH Buffer Options	USA, NIST, DIN, 5 custom buffers	•	•	—
ORP	mV Range	±2000.0mV	•	•	•
	Relative mV Range	±2000.0mV	•	•	—
	Resolution	0.1mV	•	•	•
	Accuracy	±0.2mV	•	•	•
	Calibration Points	1 point	•	•	—
Ion	Range	0.001~30000 (depending on the range of ISE)	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	—	•	•
	Measurement Units	ppm, mg/L, mol/L, mmol/L	—	•	•
	Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	—	•	•
	Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction	—	•	•
	Electrode Management	1 to 3 electrodes	—	•	•
Water Hardness	Range	0.05~200mmol/L, 0~1122°dH, 0~1404°e, 0~2000°fH, 0~8000mg/L (Ca ²⁺)	—	•	•
	Resolution	0.001, 0.01, 0.1, 1	—	•	•
	Accuracy	±1% F.S.	—	•	•
	Calibration Points	2 to 5 points (0.01, 0.1, 1, 10, 100mmol/L)	—	•	•
Temperature	Range	0~105°C/32~221°F	•	•	•
	Resolution	0.1°C/0.1°F	•	•	•
	Accuracy	±0.5°C/±0.9°F	•	•	•
	Offset Calibration	1 point, reading ±10°C	•	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•	•
	Solution Temperature Coefficient	25°C	•	•	—
	Stability Criteria	Standard or high-accuracy	•	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•	•
	Interval Readings	10, 30, 60 seconds, 10, 30 minutes or off	•	•	•
	Password Protection	4 digits	•	•	•
	Memory	1000 data sets	•	•	•
	Communication Interface	USB	•	•	•
	Connector	BNC, 3.5 mm jack socket	•	•	•
	Display	7 inches TFT LCD	•	•	•
	Power Requirements	DC12V, using AC power adapter, 220V/50Hz	•	•	•
	Dimensions	240(L)×220(W)×80(H)mm	•	•	•
	Weight	1.7kg	•	•	•

Ordering Information

- A120/130-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer sachets, electrode holder and power adapter
- A120/130-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer sachets, electrode holder and power adapter
- A131: Meter, ion selective electrode, temperature probe, standard solutions (100/1000ppm), ionic strength adjuster, electrode holder and power adapter

A150/151 Laboratory Conductivity/TDS/Salinity/Resistivity Meter

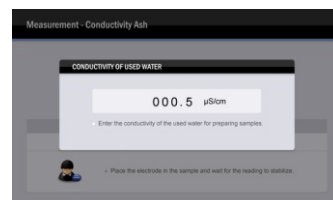
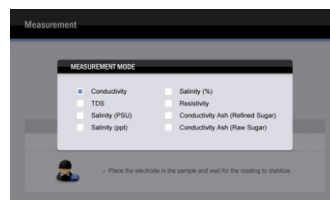


Measurement Parameters

- A150: Conductivity, TDS, salinity, resistivity, conductivity ash, temperature
- A151: Conductivity, TDS, salinity, resistivity, temperature

Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Selectable cell constant for matching the connected conductivity electrode or recalling the calibration factor
- Selectable reference temperature, TDS conversion factor, linear/non-linear/pure water compensations, seawater and practical salinity measurement modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Timed Interval Readings sends the measurement data to a PC or printer
- Limit Alarm automatically alerts when reading exceeds the specified range
- Calibration due alarm prompts user to calibrate the meter regularly
- Calibration report provides the detailed information for checking the meter and sensor
- Password protection prevents the unauthorized calibration and settings
- Expanded memory stores or recalls up to 1000 data sets
- Reset function automatically resumes all settings back to the factory defaults

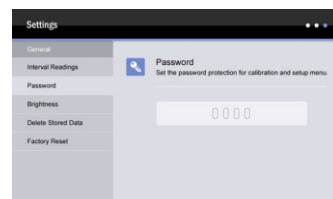


Optional Conductivity Electrodes

- CON-0.1: Suitable for measuring the low conductivity liquids (<10µS/cm)
- CON-1 : Suitable for general purpose applications
- CON-10 : Suitable for measuring the high conductivity liquids (>20mS/cm)

Ordering Information

- A150/151-**S**: Meter, CON-1 conductivity electrode, temperature probe, conductivity standard solutions, electrode holder and power adapter
- A150/151-**DL**: Meter, CON-0.1 and CON-1 conductivity electrodes, temperature probe, conductivity standard solutions, electrode holder, power adapter
- A150/151-**DH**: Meter, CON-1 and CON-10 conductivity electrodes, temperature probe, conductivity standard solutions, electrode holder, power adapter



Specifications

Model			A150	A151
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0mS/cm	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•
	Accuracy	$\pm 0.5\%$ F.S.	•	•
	Calibration Points	1 to 3 points	•	•
	Calibration Solutions	10 μ S/cm, 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm, 111.8mS/cm	•	•
TDS	Range	0~10.00, 100.0, 1000mg/L, 10.00, 200.0g/L	•	•
	Resolution	0.01, 0.1, 1	•	•
	Accuracy	$\pm 1\%$ F.S.	•	•
	TDS Factor	0.1~1.0 (default 0.5)	•	•
Salinity	Range	0.00~80.00ppt, 0.00~42.00psu, 0.00~8.00‰	•	•
	Resolution	0.01, 0.1, 1	•	•
	Accuracy	$\pm 1\%$ F.S.	•	•
Resistivity	Range	0.00~30.00M Ω	•	•
	Resolution	0.01, 0.1, 1	•	•
	Accuracy	$\pm 1\%$ F.S.	•	•
Conductivity Ash	Range	0~100%	•	—
	Resolution	0.01, 0.1, 1	•	—
	Accuracy	$\pm 1\%$ F.S.	•	—
	Measurement Modes	Refined sugar or raw sugar	•	—
Temperature	Range	0~105°C/32~221°F	•	•
	Resolution	0.1°C/0.1°F	•	•
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	•	•
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•
	Temperature Coefficient	Linear (0.0~10.0%/°C), non-linear, pure water	•	•
	Reference Temperature	20/25°C	•	•
	Cell Constant	2-pole electrodes (K=0.1, 1, 10) or 4-pole electrode	•	•
	Stability Criteria	Standard or high-accuracy	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•
	Interval Readings	10, 30, 60 seconds, 10, 30 minutes or off	•	•
	Password Protection	4 digits	•	•
	Memory	1000 data sets	•	•
	Communication Interface	USB	•	•
	Connector	6-pin nimi-DIN, 3.5mm jack socket	•	•
	Display	7 inches TFT LCD	•	•
	Power Requirements	DC12V, using AC power adapter, 220V/50Hz	•	•
	Dimensions	240(L) \times 220(W) \times 80(H)mm	•	•
	Weight	1.7kg	•	•

A180/181 Laboratory DO/BOD/OUR/SOUR Meter

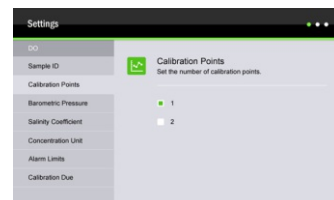
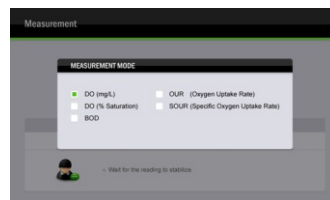


Measurement Parameters

- A180: Dissolved oxygen, BOD, oxygen uptake rate, specific oxygen uptake rate
- A181: Dissolved oxygen

Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Selectable testing time, beginning/ending DO are used for the OUR/SOUR calculations
- Auto-Read function senses and locks the measurement endpoint
- Timed Interval Readings sends the measurement data to a PC or printer
- Limit Alarm automatically alerts when reading exceeds the specified range
- Calibration due alarm prompts user to calibrate the meter regularly
- Password protection prevents the unauthorized calibration and settings
- Expanded memory stores or recalls up to 1000 data sets
- Reset function automatically resumes all settings back to the factory defaults



Ordering Information

A180/181: Meter, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap, electrode holder and power adapter

Specifications

Model			A180	A181
DO	Range	0.00~20.00mg/L, 0.0~200.0% saturation	•	•
	Resolution	0.01mg/L, 0.1%	•	•
	Accuracy	±0.2mg/L, ±2.0%	•	•
Other Specifications	Calibration Points	1 or 2 points	•	•
	Temperature Compensation	0~50°C/32~122°F, automatic	•	•
	Barometric Pressure Correction	60.0~113.3kPa/450~850mmHg, manual	•	•
	Salinity Correction	0.0~50.0g/L, manual	•	•
	BOD/OUR/SOUR Measurement	A180 meter only	•	—
	Stability Criteria	Standard or high-accuracy	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•
	Interval Readings	10, 30, 60 seconds, 10, 30 minutes or off	•	•
	Memory	1000 data sets	•	•
	Communication Interface	USB	•	•
	Connector	6-pin nimi-DIN	•	•
	Display	7 inches TFT LCD	•	•
	Power Requirements	DC12V, using AC power adapter, 220V/50Hz	•	•
	Dimensions	240(L)×220(W)×80(H)mm	•	•
	Weight	1.7kg	•	•

Bante 210/920 Benchtop pH/ORP Meter

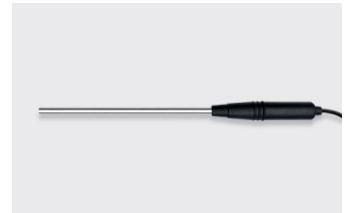


Measurement Parameters

- Bante 210: pH, mV, temperature
- Bante 920: pH, mV, relative mV, temperature

Bante 210 Features

- 1 to 3 points calibration with automatic recognition for USA and NIST buffers
- Automatic electrode diagnosis helps user decide whether to replace the pH electrode
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, etc.
- Reset function automatically resumes all settings back to the factory defaults



Bante 920 Features

pH

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset
- Automatic temperature compensation ensures accurate readings over the entire range
- Calibration due alarm prompts user to calibrate the meter regularly

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

General Features

- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer and timed interval readings



Specifications

Model		Bante 210	Bante 920
pH	Range	-1.00~15.00pH	-2.000~20.000pH
	Resolution	0.01pH	0.001, 0.01, 0.1pH, selectable
	Accuracy	±0.01pH	±0.002pH
	Calibration Points	1 to 3 points	1 to 5 points
	pH Buffer Options	USA (4.01/7.00/10.01), NIST (4.01/6.86/9.18)	USA, NIST, DIN, 2 custom buffers
ORP	mV Range	±1999mV	±1999.9mV
	Relative mV Range	—	±1999.9mV
	Resolution	1mV	0.1, 1mV, selectable
	Accuracy	±1mV	±0.2mV
	Calibration Points	—	1 point
Temperature	Range	0~105°C/32~221°F	0~105°C/32~221°F
	Resolution	0.1°C/0.1°F	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F	±0.5°C/±0.9°F
	Offset Calibration	1 point, reading ±10°C	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	0~100°C, manual or automatic
	Stability Criteria	—	Low or high
	Calibration Due Alarm	—	1 to 31 days or off
	Slope/Offset Display	—	Yes
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Memory	—	500 data sets
	Communication Interface	—	USB
	Connector	BNC, 3.5mm jack socket	BNC, 3.5mm jack socket
	Display	Custom LCD (120×60mm)	Custom LCD (125×100mm)
	Power Requirements	DC9V, using AC power adapter, 220V/50Hz	DC5V, using AC power adapter, 220V/50Hz
	Dimensions	210(L)×205(W)×75(H)mm	210(L)×188(W)×60(H)mm
	Weight	1.5kg	1.5kg

Ordering Information

- Bante 210/920-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer sachets, electrode holder, USB cable (for Bante920 only) and power adapter
- Bante 210/920-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer sachets, electrode holder, USB cable (for Bante920 only) and power adapter
- Bante 920-**ORP**: Meter, E201-BNC plastic body pH electrode, 501 ORP electrode, temperature probe, pH buffer sachets, electrode holder, USB cable and power adapter

Bante 930/931 Benchtop pH/Ion Meter



Measurement Parameters

- Bante 930: pH, mV, relative mV, ion concentration, temperature
- Bante 931: Ion concentration, mV, temperature

Features

pH

- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

- 2 to 5 points calibration, including the 8 concentration points can be selected
- Direct ion concentration readout simplifies the measurement process
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency

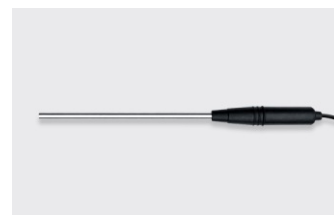


General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer and timed interval readings

Optional Ion Selective Electrodes

Ammonium (NH_4^+), bromide (Br^-), cadmium (Cd^{2+}), calcium (Ca^{2+}), chloride (Cl^-), cupric (Cu^{2+}), cyanide (CN^-), fluoride (F^-), iodide (I^-), lead (Pb^{2+}), nitrate (NO_3^-), potassium (K^+), silver (Ag^+), sodium (Na^+), sulphide (S^{2-}) and ammonia (NH_3)



Specifications

Model			Bante 930	Bante 931
pH	Range	-2.000~20.000pH	•	—
	Resolution	0.001, 0.01, 0.1pH, selectable	•	—
	Accuracy	±0.002pH	•	—
	Calibration Points	1 to 5 points	•	—
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	—
Ion	Range	0.001~19999 (depending on the range of ISE)	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•	•
	Measurement Units	ppm, mg/L, mol/L, mmol/L	•	•
	Calibration Points	2 to 5 points	•	•
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000	•	•
ORP	mV Range	±1999.9mV	•	•
	Relative mV Range	±1999.9mV	•	—
	Resolution	0.1, 1mV, selectable	•	•
	Accuracy	±0.2mV	•	•
	Calibration Points	1 point	•	—
Temperature	Range	0~105°C/32~221°F	•	•
	Resolution	0.1°C/0.1°F	•	•
	Accuracy	±0.5°C/±0.9°F	•	•
	Offset Calibration	1 point, reading ±10°C	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•
	Stability Criteria	Low or high	•	•
	Calibration Due Alarm	1 to 31 days or off	•	•
	Slope/Offset Display	Yes	•	•
	Hold Function	Manual or auto-endpoint	•	•
	Memory	500 data sets	•	•
	Communication Interface	USB	•	•
	Connector	BNC, 3.5 mm jack socket	•	•
	Display	Custom LCD (125×100 mm)	•	•
	Power Requirements	DC5V, using AC power adapter, 220V/50Hz	•	•
	Dimensions	210(L)×188(W)×60(H)mm	•	•
	Weight	1.5kg	•	•

Ordering Information

- Bante 930-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer sachets, electrode holder, USB cable and power adapter
- Bante 930-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer sachets, electrode holder, USB cable and power adapter
- Bante 931: Meter, ion selective electrode, temperature probe, standard solutions (100/1000ppm), ionic strength adjuster, electrode holder, USB cable and power adapter

Bante 932 Benchtop Water Hardness Meter



Features

- 2 to 5 points calibration from low to high concentrations
- Selectable water hardness units - mmol/L, mg/L, German degree (°dH), English degree (°e) and French degree (°f)
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, stability criteria, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface is easy to transfer data to PC



Ordering Information

Bante 932: Meter, water hardness electrode, temperature probe, standard solutions (0.01/0.1 mol/L), ionic strength adjuster, electrode holder, USB cable and power adapter

Specifications

Model		Bante 932
Water Hardness	Range	0.05~200mmol/L, 0~1122°dH, 0~2000°fH, 0~1404°e, 0~8020mg/L (Ca ²⁺), 0~19999mg/L (CaCO ₃), 0~11220mg/L (CaO)
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±1% F.S.
	Calibration Points	2 to 5 points (0.01, 0.1, 1, 10, 100mmol/L)
Temperature	Range	0.0~105.0°C
	Resolution	0.1°C
	Accuracy	±0.5°C
	Offset Calibration	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0~50°C, manual or automatic
	Stability Criteria	Low or high
	Calibration Due Alarm	1 to 31 days or off
	Memory	500 data sets
	Communication Interface	USB
	Connector	BNC, 3.5 mm jack socket
	Display	Custom LCD (125×100 mm)
	Power Requirements	DC5V, using AC power adapter, 220V/50Hz
	Dimensions	210(L)×188(W)×60(H)mm
	Weight	1.5kg

Bante 510/950 Benchtop Conductivity Meter

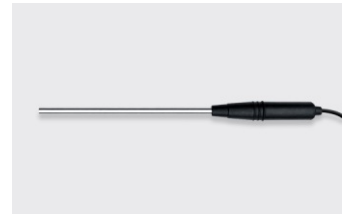


Measurement Parameters

- Bante 510: Conductivity, TDS, temperature
- Bante 950: Conductivity, TDS, salinity, resistivity, temperature

Bante 510 Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Selectable cell constant, temperature coefficient and TDS conversion factor
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, temperature unit, etc.
- Reset function automatically resumes all settings back to the factory defaults



Bante 950 Features

- 1 to 5 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer and timed interval readings

Optional Conductivity Electrodes

- CON-0.1: Suitable for measuring the low conductivity liquids ($<10\mu\text{S}/\text{cm}$)
- CON-1 : Suitable for general purpose applications
- CON-10 : Suitable for measuring the high conductivity liquids ($>20\text{mS}/\text{cm}$)



Specifications

Model	Bante 510	Bante 950
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0mS/cm
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	$\pm 1\%$ F.S.
	Calibration Points	1 to 3 points
	Calibration Solutions	10 μ S/cm, 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm, 111.8mS/cm
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt
	Resolution	0.01, 0.1, 1
	Accuracy	$\pm 1\%$ F.S.
	TDS Factor	0.1~1.0 (default 0.5)
Salinity	Range	—
	Resolution	—
	Accuracy	$\pm 1\%$ F.S.
Resistivity	Range	—
	Resolution	—
	Accuracy	$\pm 1\%$ F.S.
Temperature	Range	0~105°C/32~221°F
	Resolution	0.1°C/0.1°F
	Accuracy	$\pm 1^\circ\text{C}/\pm 1.8^\circ\text{F}$
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$
Other Specifications	Temperature Compensation	0~100°C, manual or automatic
	Temperature Coefficient	Linear (0.0~10.0%/°C)
	Reference Temperature	25°C
	Cell Constant	K=0.1, 1, 10 or custom
	Stability Criteria	—
	Calibration Due Alarm	—
	Calibration Factor Display	—
	Hold Function	Manual or auto-endpoint
	Memory	—
	Communication Interface	—
	Connector	6-pin nimi-DIN, 3.5mm jack socket
	Display	Custom LCD (120×60mm)
	Power Requirements	DC9V, using AC power adapter, 220V/50Hz
	Dimensions	210(L)×205(W)×75(H)mm
	Weight	1.5kg

Ordering Information

- Bante 510/950-**S**: Meter, CON-1 conductivity electrode, temperature probe, standard solutions, electrode holder, USB cable (for Bante950 only) and power adapter
- Bante 510/950-**DL**: Meter, CON-0.1 and CON-1 conductivity electrodes, temperature probe, standard solutions, electrode holder, USB cable (for Bante950 only) and power adapter
- Bante 510/950-**DH**: Meter, CON-1 and CON-10 conductivity electrodes, temperature probe, standard solutions, electrode holder, USB cable (for Bante950 only) and power adapter

Bante 810/980 Benchtop Dissolved Oxygen Meter

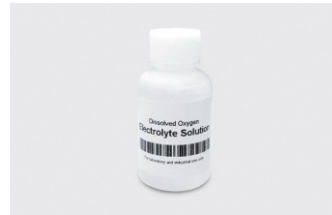


Bante 810 Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, concentration unit, temperature unit, etc.
- Reset function automatically resumes all settings back to the factory defaults

Ordering Information

Bante 810: Meter, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap, electrode holder and power adapter



Bante 980 Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, concentration unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer and timed interval readings

Ordering Information

Bante 980: Meter, DO100 dissolved oxygen electrode, electrolyte solution, membrane cap, electrode holder, USB cable and power adapter



Specifications

Model		Bante 810	Bante 980
DO	Range	0.0~20.0mg/L or ppm	0.00~20.00mg/L or ppm
	Resolution	0.1mg/L	0.01, 0.1mg/L, selectable
	Accuracy	±0.5mg/L	±0.2mg/L
% saturation	Range	0.0~200.0%	0.0~200.0%
	Resolution	0.1%	0.1, 1%, selectable
	Accuracy	±2.0%	±2.0%
Temperature	Range	0~60°C/32~140°F	0~60°C/32~140°F
	Resolution	0.1°C/0.1°F	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F	±0.5°C/±0.9°F
	Offset Calibration	1 point, reading ±10°C	1 point, reading ±10°C
Other Specifications	Dissolved Oxygen Calibration	1 or 2 points	1 or 2 points
	Temperature Compensation	0~40°C, automatic	0~50°C, automatic
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual	60.0~112.5kPa/450~850mmHg, manual
	Salinity Correction	0.0~35.0g/L, manual	0.0~50.0g/L, manual
	Stability Criteria	—	Low or high
	Calibration Due Alarm	—	1 to 31 days or off
	Hold Function	Manual or auto-endpoint	Manual or auto-endpoint
	Memory	—	500 data sets
	Communication Interface	—	USB
	Connector	6-pin nimi-DIN	6-pin nimi-DIN
	Display	Custom LCD (120×60mm)	Custom LCD (125×100mm)
	Power Requirements	DC9V, using AC power adapter, 220V/50Hz	DC5V, using AC power adapter, 220V/50Hz
	Dimensions	210(L)×205(W)×75(H)mm	210(L)×188(W)×60(H)mm
	Weight	1.5kg	1.5kg

Bante 9 Series Benchtop Multiparameter Water Quality Meter



Features

pH

- Multiparameter water quality meter is equipped with a 6.5 inches backlit LCD display
- 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset

ORP

- 1 point offset calibration allows adjusting the displayed value to a known standard
- Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

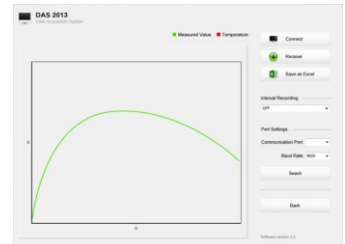
- 2 to 5 points calibration, including the 8 concentration points can be selected
- Direct ion concentration readout simplifies the measurement process
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency

Conductivity/TDS/Salinity/Resistivity

- 1 to 5 points calibration with automatic recognition for conductivity standards
- Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic electrode diagnosis shows the calibration points and factors

Dissolved Oxygen

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error



General Features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- USB communication interface for data transfer and timed interval readings

Ordering Information

- Bante 900: pH/conductivity/dissolved oxygen electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter
- Bante 901/902: pH/conductivity electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, electrode holder, USB cable and power adapter
- Bante 903: pH/dissolved oxygen electrodes, temperature probe, pH buffer sachets, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter
- Bante 904: Conductivity/dissolved oxygen electrodes, temperature probe, conductivity standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable and power adapter

Measurement Parameters

- Bante 900: pH, mV, relative mV, ion concentration, conductivity, TDS, salinity, resistivity, DO, temperature
- Bante 901: pH, mV, conductivity, TDS, temperature
- Bante 902: pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature
- Bante 903: pH, mV, relative mV, DO, temperature
- Bante 904: Conductivity, TDS, salinity, resistivity, DO, temperature

Specifications

Model			Bante 900	Bante 901	Bante 902	Bante 903	Bante 904
pH	Range	-2.000~20.000pH	•	•	•	•	—
	Resolution	0.001, 0.01, 0.1pH, selectable	•	•	•	•	—
	Accuracy	±0.002pH	•	•	•	•	—
	Calibration Points	1 to 5 points	•	•	•	•	—
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	•	•	•	—
ORP	Range	±1999.9mV	•	•	•	•	—
	Resolution	0.1, 1mV, selectable	•	•	•	•	—
	Accuracy	±0.2mV	•	•	•	•	—
	Calibration Points	1 point	•	—	•	•	—
Ion	Range	0.001~19999 (depending on the range of ISE)	•	—	—	—	—
	Resolution	0.001, 0.01, 0.1, 1	•	—	—	—	—
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•	—	—	—	—
	Measurement Units	ppm, mg/L, mol/L, mmol/L	•	—	—	—	—
	Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•	—	—	—	—
Conductivity	Range	0.01~20.00, 200.0, 2000μS/cm, 20.00, 200.0mS/cm	•	•	•	—	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±0.5% F.S.	•	•	•	—	•
	Calibration Points	1 to 5 points	•	•	•	—	•
	Calibration Solutions	10μS/cm, 84μS/cm, 1413μS/cm, 12.88mS/cm, 111.8mS/cm	•	•	•	—	•
	Temperature Coefficient	Linear (0.0~10.0%/°C), pure water	•	•	•	—	•
	Reference Temperature	20/25°C	•	•	•	—	•
	Cell Constant	K=0.1, 1, 10 or custom	•	•	•	—	•
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	•	•	•	—	•
	Resolution	0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±1% F.S.	•	•	•	—	•
	TDS Factor	0.1~1.0 (default 0.5)	•	•	•	—	•
Salinity	Range	0.00~42.00psu, 0.00~80.00ppt	•	—	•	—	•
	Resolution	0.01	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
Resistivity	Range	0.00~20.00MΩ	•	—	•	—	•
	Resolution	0.01	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
DO	Range	0.00~20.00mg/L, 0.0~200.0% saturation	•	—	—	•	•
	Resolution	0.01mg/L, 0.1%	•	—	—	•	•
	Accuracy	±0.2mg/L, ±2.0%	•	—	—	•	•
	Calibration Points	1 or 2 points	•	—	—	•	•
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual	•	—	—	•	•
	Salinity Correction	0.0~50.0g/L, manual	•	—	—	•	•
General Spec.	Temperature Compensation	0~100°C/32~212°F, manual or automatic	•	•	•	•	•
	Memory	500 data sets, USB communication interface	•	•	•	•	•
	Power Requirements	DC5V, using AC power adapter, 220V/50Hz	•	•	•	•	•
	Dimensions and Weight	210(L)×188(W)×60(H)mm, 1.5kg	•	•	•	•	•

BI-620 Industrial pH Controller



Features

- 1 to 3 points calibration with auto-buffer recognition
- Selectable pH buffer set, including the USA and NIST options
- Automatic temperature compensation ensures accurate readings over the entire range
- Automatic electrode diagnosis helps the user decide whether to replace the sensor
- Setup menu allows setting the number of calibration points, alarm limits, hysteresis value, 4 to 20mA output, etc.
- Reset function automatically resumes all settings back to the factory defaults

Ordering Information

BI-620: Controller, IE-20T industrial pH electrode and pH buffer sachets

Specifications

Model		BI-620
pH	Range	-1.00~15.00pH
	Resolution	0.01pH
	Accuracy	±0.01pH
	Calibration Points	1 to 3 points
	pH Buffer Options	USA (4.01/7.00/10.01), NIST (4.01/6.86/9.18)
mV	Range	±1000mV
	Resolution	1mV
	Accuracy	±1mV
Temperature	Range	0~100°C/32~212°F
	Resolution	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F
	Offset Calibration	1 point, reading ±10°C
Communication	Signal Output	4~20mA
	Load	Max. 500Ω
	Low or High Alarm	0.00~14.00pH, selectable
	Communication Interface	RS485
	Connection Terminals	Detachable screw terminals
Other Specifications	Temperature Compensation	0~100°C, automatic
	Environmental Conditions	Ambient temperature<60°C, relative humidity<80%
	Power Requirements	DC24V
	Dimensions	96(L)×96(W)×75(H)mm
	Weight	350g

BI-650 Industrial Conductivity Controller



Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Selectable cell constant, temperature coefficient and TDS conversion factor
- Automatic temperature compensation ensures accurate readings over the entire range
- Setup menu allows setting the number of calibration points, alarm limits, hysteresis value, 4 to 20mA output, etc.
- Reset function automatically resumes all settings back to the factory defaults

Optional Conductivity Electrodes

- IE-50LT : Suitable for measuring the pure water (<10 μ S/cm)
- IE-50MT: Suitable for general purpose applications
- IE-50HT : Suitable for measuring the seawater (>20mS/cm)

Ordering Information

BI-650: Controller, IE-50MT industrial conductivity electrode

Specifications

	Model	BI-650
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0mS/cm
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	$\pm 1\%$ F.S.
	Calibration Points	1 to 3 points (84 μ S/cm, 1413 μ S/cm, 12.88mS/cm, 111.8mS/cm)
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt
	Resolution	0.01, 0.1, 1
	Accuracy	$\pm 1\%$ F.S.
	TDS Factor	0.1~1.0 (default 0.5)
Temperature	Range	0~100°C/32~212°F
	Resolution	0.1°C/0.1°F
	Accuracy	$\pm 1^\circ\text{C}/\pm 1.8^\circ\text{F}$
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$
Communication	Signal Output	4~20mA
	Load	Max. 500 Ω
	Low or High Alarm	0.02 μ S/cm~20.0mS/cm, selectable
	Communication Interface	RS485
	Connection Terminals	Detachable screw terminals
Other Specifications	Temperature Compensation	0~100°C, automatic
	Environmental Conditions	Ambient temperature <60°C, relative humidity <80%
	Power Requirements	DC24V
	Dimensions	96(L) \times 96(W) \times 75(H)mm
	Weight	350g

BI-680 Industrial Dissolved Oxygen Controller



Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement error
- Automatic temperature compensation ensures accurate readings over the entire range
- Setup menu allows setting the number of calibration points, measurement unit, alarm limits, hysteresis value, 4 to 20mA output, etc.
- Reset function automatically resumes all settings back to the factory defaults

Ordering Information

BI-680: Controller, IE-80T industrial dissolved oxygen electrode, electrolyte solution and membrane cap

Specifications

	Model	BI-680
DO	Range	0.0~20.0mg/L
	Resolution	0.1mg/L
	Accuracy	±0.5mg/L
% Saturation	Range	0.0~200.0%
	Resolution	0.1%
	Accuracy	±2.0%
Temperature	Range	0~60°C/32~140°F
	Resolution	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F
	Offset Calibration	1 point, reading ±10°C
Communication	Signal Output	4~20mA
	Load	Max. 500Ω
	Low or High Alarm	0.00~20.00mg/L, selectable
	Communication Interface	RS485
Other Specifications	Connection Terminals	Detachable screw terminals
	Dissolved Oxygen Calibration	1 or 2 points
	Temperature Compensation	0~40°C, automatic
	Barometric Pressure Correction	60.0~112.5kPa/450~850mmHg, manual
	Salinity Correction	0.0~35.0g/L, manual
	Power Requirements	DC24V
	Dimensions	96(L)×96(W)×75(H)mm
	Weight	350g

TB100 Portable Turbidity Meter



Ordering Information

TB100: Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and carrying case

Features

- High-performance portable turbidity meter meets the design criteria in ISO 7027
- 2 to 5 points calibration using the Formazin Standards
- Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC
- Single measurement mode automatically senses and locks a stable reading
- Continuous measurement mode can be used for indexing or matching the sample vials
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, resolution, date and time, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Specifications

Model		TB100
Turbidity	Principle	ISO 7027 nephelometric method (90°)
	Range	0~1100 NTU, 0~275 EBC, 0~9999 ASBC
	Resolution	0.01 (0~99 NTU), 0.1 (100~999 NTU), 1 (1000~1100 NTU)
	Accuracy	±2% of reading (0~500 NTU), ±3% of reading (501~1100 NTU)
	Calibration Points	2 to 5 points
	Calibration Standards	0.02, 10, 200, 500, 1000 NTU
Other Specifications	Light Source	Infrared-emitting diode (850nm wavelength)
	Detector	Silicon photodiode
	Stray Light	<0.02 NTU
	Sample Vial	60(H)×25(Dia)mm
	Sample Volume	30mL
	Memory	100 data sets
	Communication Interface	USB
	Operating Temperature	0~50°C
	Display	Custom LCD (60×40 mm)
	Power Requirements	3×1.5V AA batteries or DC5V power adapter
	Dimensions	180(L)×85(W)×70(H)mm
	Weight	300g

TB200 Benchtop Turbidity Meter



Ordering Information

TB200: Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and power adapter

Measurement Parameters

Turbidity, total suspended solids (TSS)

Features

- 2 to 7 points calibration using the Formazin Standards
- Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC
- TSS conversion factor ensures the accurate measurement of the total suspended solids
- Auto-Read function senses and locks a stable reading
- Setup menu allows setting the date and time, measurement mode, resolution, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Password protection prevents the unauthorized calibration and settings
- Expanded memory stores or recalls up to 200 data sets
- USB communication interface is easy to transfer data to PC



Specifications

Model		TB200
Turbidity	Range	0~2000 NTU, 0~500 EBC, 0~9999 ASBC
	Resolution	0.01 (0~99 NTU), 0.1 (100~999 NTU), 1 (1000~2000 NTU)
	Accuracy	±2% of reading (0~500 NTU), ±3% of reading (501~2000 NTU)
	Calibration Points	2 to 7 points
	Calibration Standards	0.02, 10, 200, 500, 1000, 1500, 2000 NTU
TSS	Range	Depending on the TSS conversion factor
	Accuracy	3% of reading
Other Specifications	Light Source	Infrared-emitting diode (850nm wavelength)
	Detector	Silicon photodiode
	Stray Light	<0.02 NTU
	Sample Vial	60(H)×25(Dia)mm
	Memory	200 data sets
	Communication Interface	USB
	Operating Temperature	0~50°C
	Display	4.5 inches TFT LCD
	Power Requirements	DC12V, using AC power adapter, 220V/50Hz
	Dimensions	250(L)×177(W)×96(H)mm
	Weight	1.2kg

WXG-4 Manual Polarimeter



Easy-to-use manual polarimeter, measuring range from -180 to +180 degrees. The instrument is suitable for measuring the optical rotation of the optically active substances, accuracy: 0.05 degrees.

Features

The instruments is equipped with a 589nm sodium lamp. Switch on the power, the polarized light beam radiates to the polarizer filter. The operator is able to observe the distinct visual fields through eyepiece. Put the glass sample tube into the measurement chamber, rotate the vernier knob until the visual fields appear the equal brightness. Read and record the measured values from the vernier scale, the measurement is completed.



Ordering Information

WXG-4: Polarimeter, glass sample tubes (100/200mm) and sealing rings

Specifications

Model	WXG-4
Range	±180°
Scale Value	1°
Vernier	0.05°
Magnifier	3X
Light Source	Sodium lamp
Optical Wavelength	589nm
Sample Tube Length	Up to 200mm
Power Requirements	AC 220V/50Hz
Dimensions	500 (L)×135 (W)×330 (H) mm
Weight	5kg

POL-200 Semiautomatic Polarimeter



Measurement Parameters

Optical rotation, specific rotation, concentration, international sugar scale (°Z)

Features

- Multiparameter semiautomatic polarimeter is installed with a 5.6 inches touch screen
- LED provides a long-life light source
- Zero point calibration adjusts and eliminates the measurement error
- Built-in temperature sensor automatically measures and compensates the readings to specific rotation value
- Selectable tube length or manually enter a desired value
- Expanded memory stores and recalls up to 100 data sets
- Reset function automatically resumes all settings back to the factory defaults
- On-screen operation guide detailedly shows the polarimeter uses

Ordering Information

POL-200: Polarimeter, glass sample tubes (100/200mm) and sealing rings



Specifications

Model	POL-200
Range	±90°/±130°Z
Resolution	0.005°
Accuracy	±0.02°/±0.05°Z
Calibration Points	1 to 3 points
Temperature Correction	0~50°C
Light Source	LED and interference filter
Optical Wavelength	589nm
Sample Tube Length	Up to 200mm
Data Storage	100 data sets
Communication Interface	USB
Display	5.6 inches TFT touch screen
Power Requirements	AC 220V/50Hz
Dimensions	550(L)×300(W)×220(H)mm
Weight	7.5kg

JB-1A Mini Magnetic Stirrer



Features

Simple and interesting mini magnetic stirrer, using an electrical motor spins the magnet modules, stirring speed from 0 to 1250rpm.

Specifications

Model	JB-1A
Stirring Volume	0~2000mL
Stirring Speed	0~1250rpm
Top Plate Size	Dia.145mm
Material	PC
Stir Bar Size	30(L)×7 (Dia.)mm
Power Requirements	AC 220V/50Hz
Dimensions	185 (Dia.)×75 (H) mm
Weight	0.6kg

MS Series Hotplate Magnetic Stirrer



Features

- High-performance hotplate magnetic stirrer comes with a temperature probe
- Large LCD display clearly shows the timer, temperature and running status
- Automatic constant temperature through a connected sensor
- 1 point offset calibration ensures the accurate temperature control
- Push-button speed control effectively avoids that hot-liquids hurt the operator
- Adjustable heating temperature, stirring times and speeds

Ordering Information

- MS200: Stirrer and stir bar
- MS300/400: Stirrer, stir bar and temperature probe

Specifications

Model	MS200	MS300	MS300
Stirring Volume	0~2000mL		
Stirring Speed	0~1250rpm		
Heater	—	380W	450W
Hotplate Temperature	—	Max. 300°C	Max. 400°C
Timer Range	Up to 999 minutes		
Top Plate Size	135 (L)×135 (W)mm		
Material	Stainless steel		
Display	Custom LCD (95×35 mm)		
Power Requirements	AC 220V/50Hz		
Ambient Temperature	<50°C		
Dimensions	230 (L)×180 (W)×120 (H)mm		
Weight	2.2kg		

P Series Glass pH Electrode

P11

Glass pH electrode, suitable for measuring the non-high temperature liquids



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, single junction
Liquid Junction	Annular ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P11-LiCl

Glass pH electrode, suitable for measuring the non-aqueous samples



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, double junction
Liquid Junction	Ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P11-HA

Glass pH electrode, suitable for measuring the high alkalines samples



Range	0~14pH
Operating Temperature	0~100°C, 32~212°F
Reference	Ag/AgCl, single junction
Liquid Junction	Ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P11-NA

Glass pH electrode, suitable for measuring the biofuels



Range	0~14pH
Operating Temperature	0~60°C, 32~140°F
Reference	Ag/AgCl, double junction
Liquid Junction	Ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P12

Glass pH electrode, suitable for measuring the sample in the test tube



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, single junction
Liquid Junction	Frit ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	150(L)×6(Dia.)mm

P13

Glass pH electrode, suitable for measuring the micro-volume samples



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, single junction
Liquid Junction	Frit ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	90(L)×4.3(Dia.)mm

P15

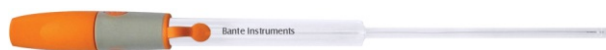
Glass pH electrode, suitable for measuring the low conductivity liquids



Range	0~11pH
Operating Temperature	0~50°C, 32~122°F
Reference	HgCl, single junction
Liquid Junction	Annular ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P16

Glass pH electrode, suitable for measuring the liquids with Tris buffers



Range	0~14pH
Operating Temperature	0~50°C, 32~122°F
Reference	HgCl, single junction
Liquid Junction	Frit ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	90(L)×6(Dia.)mm

P18

Glass pH electrode, suitable for measuring the slurry and soil



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, single junction
Liquid Junction	Annular ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P19

Glass pH electrode, suitable for measuring the semisolids



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, single junction
Liquid Junction	Frit ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	40(L)×6(Dia.)mm

P21

Glass pH electrode, suitable for measuring the colloids



Range	0~14pH
Operating Temperature	0~80°C, 32~176°F
Reference	AgCl, double junction
Liquid Junction	Sleeve
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

P22

Glass pH electrode, suitable for measuring the high temperature samples



Range	0~14pH
Operating Temperature	0~130°C, 32~266°F
Reference	AgCl, double junction
Liquid Junction	Porous teflon
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

E Series Laboratory pH Electrode

E201-BNC

General purpose pH electrode, suitable for measuring the liquids



Range	0~14pH
Operating Temperature	0~60°C, 32~140°F
Reference	AgCl, single junction
Liquid Junction	Fiber
Body Type	Epoxy
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

E202-BNC

Flat surface pH electrode, suitable for measuring the semisolids



Range	0~14pH
Operating Temperature	0~60°C, 32~140°F
Reference	AgCl, single junction
Liquid Junction	Teflon
Body Type	Epoxy
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

E203-BNC

General purpose pH electrode with a built-in temperature sensor (10KΩ)



Range	0~14pH
Operating Temperature	0~60°C, 32~140°F
Reference	AgCl, single junction
Liquid Junction	Fiber
Body Type	Epoxy
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

5 Series Laboratory ORP Electrode

501

General purpose ORP electrode, suitable for the sample with a strong redox potential



Sensor Type	Platinum pin
Operating Temperature	0~80°C, 32~176°F
Reference	Ag/AgCl
Liquid Junction	Teflon
Body Type	Epoxy
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

502

General purpose ORP electrode, suitable for the sample with a weak redox potential



Sensor Type	Platinum band
Operating Temperature	0~80°C, 32~176°F
Reference	Ag/AgCl
Liquid Junction	Teflon
Body Type	Epoxy
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

504

Glass ORP electrode, suitable for high temperature samples (<100°C/212°F)



Sensor Type	Platinum band
Operating Temperature	0~100°C, 32~212°F
Reference	Ag/AgCl
Liquid Junction	Annular ceramic
Body Type	Glass
Connector	BNC, 1m cable
Dimensions	120(L)×12(Dia.)mm

Electrode Selection Table

The accurate pH measurement depends on selecting the suitable pH electrode. The following chart describes the application range of each sensor. For reference only.

Model	P11	P12	P13	P16	P18	P19	P20	P21	E201	E202
Agar										•
Alkalines (high)	•									
Beer	•	•	•				•	•	•	•
Blood Products	•	•	•					•		•
Bread/Dough					•	•				
Cement	•									
Cosmetics	•	•	•					•		•
Dairy Products	•	•	•			•				•
Education	•								•	•
Fats/Cream						•				
Field Use					•		•		•	•
Fish Products						•				•
Lab Flasks		•								
Low Ionic	•									
Meat						•				•
Cheese						•				•
Micro Samples			•							
Paint		•	•							•
Photographic										
Soil					•	•				
Surface										•
Test Tubes		•		•						
Tris Buffer				•						
Viscose Samples										•

IE-20T Industrial pH Electrode



Features

- General purpose pH electrode with a built-in temperature sensor
- 3/4 inch NPT is easy to install

Range	0~14pH
Operating Temperature	0~60°C, 32~140°F
Reference	Ag/AgCl
Liquid Junction	Teflon
Body Type	PPS/PC
Cable Length	5m
Dimensions	150(L)×29.5(Dia.)mm

US Series Ion Selective Electrode

Features

- Combination ion selective electrode
- No reference electrode needed
- Solid state sensors Ideal for unskilled operatives



Specifications

Model	Ion	Concentration (mol/L)	Limits (ppm)	pH Range	Operating Temperature
NH4-US	Ammonium	$5 \times 10^{-6} \sim 1$	0.1~18000	4~10	0~50°C
Br-US	Bromide	$5 \times 10^{-6} \sim 1$	0.4~79900	1~12	0~80°C
Cd-US	Cadmium	$1 \times 10^{-6} \sim 0.1$	0.01~11200	2~12	0~80°C
Ca-US	Calcium	$5 \times 10^{-7} \sim 1$	0.02~4000	2.5~11	0~40°C
CL-US	Chloride	$5 \times 10^{-6} \sim 1$	1.8~35500	2~12	0~80°C
Cu-US	Cupric	$1 \times 10^{-8} \sim 0.1$	0.006~6400	2~12	0~80°C
Cn-US	Cyanide	$5 \times 10^{-6} \sim 0.01$	0.2~260	10~14	0~80°C
F-US	Fluoride	$1 \times 10^{-6} \sim \text{saturation}$	0.02~saturation	5~7	0~80°C
I-US	Iodide	$5 \times 10^{-8} \sim 1$	0.06~127000	0~14	0~50°C
Pb-US	Lead	$1 \times 10^{-8} \sim 0.1$	0.2~20700	4~7	0~80°C
NO3-US	Nitrate	$7 \times 10^{-6} \sim 1$	0.4~62000	2.5~11	0~50°C
K-US	Potassium	$1 \times 10^{-6} \sim 1$	0.04~39000	2~12	0~40°C
Ag-US	Silver	$1 \times 10^{-7} \sim 1$	0.01~107900	2~12	0~80°C
Na-US	Sodium	$1 \times 10^{-5} \sim 1$	0.1~23000	>9	0~80°C
S-US	Sulphide	$1 \times 10^{-7} \sim 1$	0.003~32100	2~12	0~80°C
NH3-US	Ammonia	$1 \times 10^{-6} \sim 1$	0.02~17000	11	0~50°C

WH-UK Water Hardness Electrode

Features

- Combination water hardness electrode
- No filling solution required
- Long lifetime



Specifications

Model	WH-UK
Concentration	0.05~200mmol/L
pH Range	2~11pH
Operating Temperature	0~50°C, 32~122°F
Cable Length	1m
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

K Series Laboratory Conductivity Electrode

K10

Platinum conductivity electrode, suitable for the general purpose applications



Range	0~35mS/cm
Cell Constant	K=1.0
Operating Temperature	0~50°C, 32~122°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

K20

Graphite conductivity electrode, suitable for measuring the paint, dyes, etc.



Range	0~10mS/cm
Cell Constant	K=1.0
Operating Temperature	0~50°C, 32~122°F
Body Type	Epoxy
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

K30

Platinum conductivity electrode with the flow cell design



Range	0~35mS/cm
Cell Constant	K=1.0
Operating Temperature	0~50°C, 32~122°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

K21

Graphite conductivity electrode, suitable for measuring the pure water



Range	0~500μS/cm
Cell Constant	K=0.1
Operating Temperature	0~50°C, 32~122°F
Body Type	Epoxy
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

K40

Platinum conductivity electrode, suitable for measuring the low conductivity liquids



Range	0~500μS/cm
Cell Constant	K=0.1
Operating Temperature	0~50°C, 32~122°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

K22

Graphite conductivity electrode, suitable for measuring the high conductivity liquids



Range	0~500mS/cm
Cell Constant	K=10
Operating Temperature	0~50°C, 32~122°F
Body Type	Epoxy
Cable Length	1m
Connector	6-pin nimi-DIN
Dimensions	120(L)×12(Dia.)mm

CON Series

Laboratory Conductivity Electrode

CON-0.1
Platinum conductivity electrode, suitable for measuring the pure water



Range	0~100μS/cm
Cell Constant	K=0.1
Operating Temperature	0~80°C, 32~176°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nemi-DIN
Dimensions	120(L)×12(Dia.)mm

CON-1
Platinum conductivity electrode, suitable for general purpose applications



Range	10μS/cm~20mS/cm
Cell Constant	K=1.0
Operating Temperature	0~80°C, 32~176°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nemi-DIN
Dimensions	120(L)×12(Dia.)mm

CON-10
Platinum conductivity electrode, suitable for measuring the high conductivity liquids



Range	100μS/cm~200mS/cm
Cell Constant	K=10
Operating Temperature	0~80°C, 32~176°F
Body Type	Glass
Cable Length	1m
Connector	6-pin nemi-DIN
Dimensions	120(L)×12(Dia.)mm

IE-50T Series

Industrial Conductivity Electrode



- Features**
- Platinum conductivity electrode with a built-in temperature sensor
 - Strong and unbreakable stainless steel housing
 - 3/4 inch NPT is easy to install

Model	IE-50LT	IE-50MT	IE-50HT
Range	0~100μS/cm	0~20mS/cm	0~200mS/cm
Cell Constant	K=0.1	K=1.0	K=10
Operating Temperature	0~80°C, 32~176°F		
Body Type	Stainless steel		
Cable Length	5m		
Dimensions	150(L)×29.5(Dia.)mm		

DO100 Laboratory Dissolved Oxygen Electrode

Features

- Polarographic dissolved oxygen electrode with a built-in temperature sensor
- Screw cap design makes membrane replacement quick and easy



Sensor Includes

- Electrolyte solution (30mL)
- Membrane cap

Specifications

Model	DO100
Sensor Type	Polarographic
Range	0~20mg/L
Operating Temperature	0~50°C, 32~122°F
Response Time	95% of final reading in 30 seconds, 98% in 45 seconds
Minimum Sample Flow	20cm per second
Cable Length	2m
Connector	6-pin nimi-DIN
Dimensions	150(L)×12(Dia.)mm

IE-80T Industrial Dissolved Oxygen Electrode

Features

- Polarographic dissolved oxygen electrode with a built-in temperature sensor
- 3/4 inch NPT is easy to install



Sensor Includes

- Electrolyte solution (30mL)
- Membrane cap

Specifications

Model	IE-80T
Sensor Type	Polarographic
Range	0~20mg/L
Operating Temperature	0~50°C, 32~122°F
Response Time	95% of final reading in 30 seconds, 98% in 45 seconds
Minimum Sample Flow	20cm per second
Cable Length	6m
Connector	—
Dimensions	150(L)×29.5(Dia.)mm



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