

# Bante3 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<sub>4</sub><sup>+</sup>), bromide (Br<sup>-</sup>), cadmium (Cd<sup>2+</sup>), calcium (Ca<sup>2+</sup>), chloride (Cl<sup>-</sup>), cupric (Cu<sup>2+</sup>), cyanide (CN<sup>-</sup>), fluoride (F<sup>-</sup>), iodide (I<sup>-</sup>), lead (Pb<sup>2+</sup>), nitrate (NO<sub>3</sub><sup>-</sup>), potassium (K<sup>+</sup>), silver (Ag<sup>+</sup>), sodium (Na<sup>+</sup>), sulphide (S<sup>2-</sup>) and ammonia (NH<sub>3</sub>)



## 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

- Bante 320-**CN**: Meter, E201-BNC plastic body pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante 320-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer solutions and carrying case
- Bante 321: Meter, ion selective electrode, temperature probe, standard solutions (100/1000ppm), ionic strength adjuster and carrying case