

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 zero 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 selection of 8 concentration points
- Automatic electrode diagnosis shows the calibration points and electrode slopes
- Selectable concentration units (ppm, mg/L, mol/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 reminds the 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 a PC
- Multi-mode power scheme (battery, power adapter and USB port) ensures the smooth operation of the meter

Optional Ion Selective Electrodes

Ammonium (NH₄⁺), bromide (Br⁻), cadmium (Cd²⁺), calcium (Ca²⁺), chloride (Cl⁻), cupric (Cu²⁺), cyanide (CN⁻), fluoride (F⁻), iodide (I⁻), lead (Pb²⁺), nitrate (NO₃⁻), potassium (K⁺), silver (Ag⁺), sodium (Na⁺), sulphide (S²⁻) and ammonia (NH₃)



Specifications

Model		Bante 320	Bante 321
pH	Range	-2.000~20.000pH	• —
	Resolution	0.001, 0.01, 0.1 pH, selectable	• —
	Accuracy	±0.002pH	• —
	Calibration	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	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, 1 mV, selectable	• •
	Accuracy	±0.2mV	• •
	Calibration	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 5V DC power adapter	• •
	Battery Life	Approximately 150 hours (turn off the backlight)	• •
	Dimensions	170(L)×85(W)×30(H) mm	• •
	Weight	300 g	• •

Ordering Information

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