

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 users 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 restores all settings to the factory defaults
 - Expanded memory stores or recalls up to 500 data sets
 - USB communication interface enables easy data transfer to a PC
 - DAS software is capable of receiving data, recording measurements at specified intervals, exporting data to Excel
 - 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⁻), ammonia (NH₃)



Specifications

Model		Bante 320	Bante 321
pH	Range	-2.000...20.000pH	• —
	Resolution	0.001, 0.01, 0.1, selectable	• —
	Accuracy	±0.002pH	• —
	Calibration	1...5 points	• —
	pH Buffer Options	USA (1.68/4.01/7.00/10.01/12.45), NIST (1.68/4.01/6.86/9.18/12.45), DIN (1.09/4.65/6.79/9.23/12.75), 2 custom buffers	• —
Ion	Range	0.001...19999 (depending on the electrode range)	• •
	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...5 points	• •
	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000	• •
ORP	mV Range	-1999.9...1999mV	• •
	Relative mV Range	-1999.9...1999mV	• —
	Resolution	0.1, 1, selectable	• •
	Accuracy	±0.2mV	• •
	Calibration	1 point	• —
Temperature	Range	0...105°C/32...221°F	• •
	Resolution	0.1	• •
	Accuracy	±0.5°C/±0.9°F	• •
	Offset Calibration	1 point, reading ±10°C	• •
General	Temperature Compensation	0...100°C, manual or automatic	• •
	Stability Criteria	Standard or strict	• •
	Calibration Due Alarm	1 to 31 days or off	• •
	Slope/Offset Display	Yes	• •
	Hold Function	Manual or auto-lock endpoint	• •
	Auto-Off	10/20/30 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 Supply	3×1.5V AA batteries or 5V DC power adapter	• •
	Battery Life	Approx. 150 hours (turn off the backlight)	• •
	Dimensions	170(L)×85(W)×30(H)mm	• •
Weight	300g	• •	

Ordering Information

- Bante320-**S**: Meter, E201 pH electrode, temperature probe, pH buffer solutions, electrode clip, carrying case
- Bante320-**UK**: Meter, P11 glass pH electrode, temperature probe, pH buffer solutions, electrode clip, carrying case
- Bante321: Meter, ion selective electrode, temperature probe, 100 and 1000 ppm standard solutions, ionic strength adjuster, electrode clip, carrying case