Bante 9 Series Benchtop Multiparameter Water Quality Meter

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

Ordering Information

- Bante 900:
  Meter, pH/conductivity/DO electrodes, temperature probe, pH buffer reagents, conductivity standard solutions, DO electrolyte solution, DO membrane cap, electrode holder, power adapter

- Bante 901/902:
  Meter, pH/conductivity electrodes, temperature probe, pH buffer reagents, conductivity standard solutions, electrode holder, power adapter

- Bante 903:
  Meter, pH/DO electrodes, temperature probe, pH buffer reagents, DO electrolyte solution, DO membrane cap, electrode holder, power adapter

- Bante 904:
  Meter, conductivity/DO electrodes, temperature probe, conductivity standard solutions, DO electrolyte solution, DO membrane cap, electrode holder, power adapter

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 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

- Conductivity/TDS/Salinity/Resistivity
- 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 conversion factor, linear and pure water compensations, seawater and practical salinity measurement modes

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

- 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
- 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

Specifications

	Model		Bante900	Bante901	Bante902	Bante903	Bante904
pH	Range	-2.000...20.000 pH	•	•	•	•	—
	Resolution	0.001, 0.01, 0.1, selectable	•	•	•	•	—
	Accuracy	±0.002 pH	•	•	•	•	—
	Calibration	1...5 points	•	•	•	•	—
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	•	•	•	—
ORP	Range	-1999.9...1999.9 mV	•	•	•	•	—
	Resolution	0.1, 1, selectable	•	•	•	•	—
	Accuracy	±0.2 mV	•	•	•	•	—
	Calibration	1 point	•	—	•	•	—
Ion	Range	0.001...19999 (deponding 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 (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•	—	—	—	—
Conductivity	Range	0...20.00, 200.0, 2000 µS/cm, 20.00, 200.0 mS/cm	•	•	•	—	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±0.5% F.S.	•	•	•	—	•
	Calibration	1...5 points	•	•	•	—	•
	Calibration Solutions	10 µS/cm, 84 µS/cm, 1413 µS/cm, 12.88 mS/cm, 111.8 mS/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, 1000 ppm, 10.00, 200.0 ppt	•	•	•	—	•
	Resolution	0.01, 0.1, 1	•	•	•	—	•
	Accuracy	±1% F.S.	•	•	•	—	•
	TDS Factor	0.1...1.0 (default 0.5)	•	•	•	—	•
Salinity	Range	0.00...42.00 psu, 0.00...80.00 ppt	•	—	•	—	•
	Resolution	0.01	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
Resistivity	Range	0.00...20.00 MΩ	•	—	•	—	•
	Resolution	0.01, 0.1	•	—	•	—	•
	Accuracy	±1% F.S.	•	—	•	—	•
DO	Range	0.00...20.00 mg/L, 0.0...200.0% saturation	•	—	—	•	•
	Resolution	0.01 , 0.1	•	—	—	•	•
	Accuracy	±0.2 mg/L, ±2.0%	•	—	—	•	•
	Calibration	1...2 points	•	—	—	•	•
	Barometric Pressure Correction	60.0...113.3 kPa/450...850 mmHg, manual	•	—	—	•	•
	Salinity Correction	0.0...50.0 ppt, manual	•	—	—	•	•
General	Temperature Compensation	0...100°C/32...212°F, manual or automatic	•	•	•	•	•
	Memory	500 data sets, USB communication interface	•	•	•	•	•
	Power Supply	5V DC power adapter	•	•	•	•	•
	Dimensions and Weight	210(L)×188(W)×60(H)mm, 1.5 kg	•	•	•	•	•