

# Bante90P series Portable Multiparameter Water Quality Meter



## FEATURES

### pH:

- Multi-parameter portable meter is equipped with a large backlit LCD display.
- 1 to 5 points push-button calibration with auto-buffer recognition.
- Selectable pH buffer group (USA/NIST/DIN) or using the custom calibration solutions.
- Automatic electrode diagnosis with pH slope and offset display.

### ORP:

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

### ION:

- 2 to 5 points calibration, containing the 8 concentration points can be selected.
- Automatically recognizes the ion selective electrodes, does not need to specify type of ion.
- Direct ion concentration readout simplifies the measurement process.
- mV measurement mode can be used to calculate the ion concentration.
- Selectable concentration units include the ppm, mg/L and mol/L.

### CONDUCTIVITY/TDS/SALINITY/RESISTIVITY:

- 1 to 5 points push-button calibration, automatically recognizes the calibration solutions.
- Selectable cell constant (0.1/1/10), normalization temperature (20/25°C), TDS 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 provide the reliable measuring results.
- Selectable measurement unit including the mg/L, ppm, mmHg and kPa.

### GENERAL:

- Automatic Temperature Compensation provides accurate reading over the entire range.
- Calibration Due Reminder prompts user to calibrate the meter regularly.
- Stability indicator shows when a measurement is recognized as stable.
- Auto-Hold feature senses and locks the measurement endpoint.
- Battery indicator shows the remaining battery capacity.
- Auto-Power Off effectively conserves battery life.
- Calibration report provides the details of the calibration standards and electrode slopes.
- Setup menu allows setting the 15 parameters, including the number of calibration points, stability criteria, temperature unit, etc.
- Reset feature automatically resumes all settings back to factory default options.
- Expanded memory stores and recalls up to 500 data sets.
- Stored readings can be transferred into the computer by USB communication interface.
- Multi-mode power scheme (battery, power adapter or USB port) ensures that use the meter smoothly.

## MEASUREMENT PARAMETERS

- 900P meter: pH, mV, Ion, Conductivity, TDS, Salinity, Resistivity, DO.
- 901P meter: pH, mV, Conductivity, TDS.
- 902P meter: pH, mV, Conductivity, TDS, Salinity, Resistivity.
- 903P meter: pH, mV, DO.
- 904P meter: Conductivity, TDS, Salinity, Resistivity, DO.

## SPECIFICATION

Model			Bante900P	Bante901P	Bante902P	Bante903P	Bante904P
pH	Measuring Range	-2.000~20.000pH	•	•	•	•	—
	Accuracy	±0.002pH	•	•	•	•	—
	Calibration Points	1~5 points (USA, NIST, DIN, Custom)	•	•	•	•	—
mV	Measuring Range	±1999.9mV	•	•	•	•	—
	Accuracy	±0.2mV	•	•	•	•	—
	Calibration Points	1 point (Only for Relative mV mode)	•	—	•	•	—
Ion	Measuring Range	0.001~19999ppm, mg/L, mol/L (Depending on range of ISE)	•	—	—	—	—
	Accuracy	±0.5% F.S (Monovalent), ±1% F.S (Divalent)	•	—	—	—	—
	Calibration Points	2~5 points	•	—	—	—	—
Conductivity	Measuring Range	0.01~20.00, 200.0, 2000μS/cm, 20.00, 200mS/cm	•	•	•	—	•
	Accuracy	±0.5% F.S	•	•	•	—	•
	Calibration Points	1~5 points (10, 84, 1413μS/cm, 12.88, 111.8mS/cm)	•	•	•	—	•
	Cell Constant	K=0.1, 1, 10 or User-defined	•	•	•	—	•
	Temperature Coefficient	Linear and Pure water compensation	•	•	•	—	•
	Reference Temperature	20°C or 25°C	•	•	•	—	•
TDS	Measuring Range	0~10.00, 100.0, 1000ppm, 10.00, 100ppt (Max. 200ppt)	•	•	•	—	•
	Accuracy	±1% F.S	•	•	•	—	•
	TDS Factor	0.01~1.00 (Default 0.5)	•	•	•	—	•
Salinity	Measuring Range	0.00~80.00ppt, 0.00~42.00psu	•	—	•	—	•
	Accuracy	±1% F.S	•	—	•	—	•
	Measurement Modes	Practical Salinity (psu) or Natural Seawater (ppt)	•	—	•	—	•
Resistivity	Measuring Range	0.00~20MΩ	•	—	•	—	•
	Accuracy	±1% F.S	•	—	•	—	•
	Resolution	0.01, 0.1, 1	•	—	•	—	•
DO	Measuring Range	0.00~20.00mg/L, 0.0~200.0% Saturation	•	—	—	•	•
	Accuracy	±0.2mg/L, ±2.0%	•	—	—	•	•
	Calibration Points	1 or 2 points	•	—	—	•	•
	Barometric Pressure Correction	60.0~112.5kPa, 450~850mmHg, Manual	•	—	—	•	•
	Salinity Correction	0~50g/L, Manual	•	—	—	•	•
General	Temperature Compensation	0~100°C, 32~212°F, Manual or Automatic	•	•	•	•	•
	Memory	Stores up to 500 data sets	•	•	•	•	•
	Output	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	•	•	•	•	•

## METER INCLUDES

- Bante 900P meter: pH electrode, conductivity electrode, DO probe, temperature probe, pH buffers, conductivity standard solutions, DO electrolyte solution and carrying case.
- Bante 901P or 902P meter: pH electrode, conductivity electrode, temperature probe, pH buffers, conductivity standard solutions and carrying case.
- Bante 903P meter: pH electrode, DO probe, temperature probe, pH buffers, DO electrolyte solution and carrying case.
- Bante 904P meter: conductivity electrode, DO probe, temperature probe, conductivity standard solutions, DO electrolyte solution and carrying case.