

# Bante520/530/531/540 Portable Conductivity Meter



## MEASUREMENT PARAMETERS

- 520 meter: Conductivity, Temperature
- 530 meter: Conductivity, Total Dissolved Solids, Temperature
- 531 meter: Conductivity, Salinity, Temperature
- 540 meter: Conductivity, Total Dissolved Solids, Salinity, Resistivity, Temperature

## FEATURES

- 1 to 5 points push-button calibration, automatically recognizes the calibration solutions.
- Selectable cell constant (0.1/1/10), normalization temperature (20°C/25°C), TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes.
- 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.
- Calibration report provides the details of the calibration standard and cell constant.
- Setup menu allows setting the 11 parameters, including the number of calibration points, stability criteria, temperature unit, auto-power off, 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 (batteries, power adapter or USB port) ensures that use the meter smoothly.



## METER INCLUDES

Conductivity electrode (range:10µS/cm~10mS/cm), temperature probe, standard solutions (84µS/cm, 1413µS/cm, 12.88mS/cm), carrying case.

## OPTIONAL ELECTRODES

CON-0.1 conductivity electrode (K=0.1):

Suitable for measuring the low conductivity liquids (<10µS/cm), e.g., pure water.

CON-10 conductivity electrode (K=10):

Suitable for measuring the high conductivity liquids (>20mS/cm), e.g., seawater.



## SPECIFICATION

Model			Bante 520	Bante 530	Bante 531	Bante 540
Conductivity	Measuring Range	0.01~20.00, 200.0, 2000 $\mu$ S/cm, 20.00, 200mS/cm*	•	•	•	•
	Accuracy	$\pm$ 0.5% F.S	•	•	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	•
	Calibration Points	1~3 points (model 520), 1~5 points (model 530/531/540)	•	•	•	•
	Calibration Solutions	10 $\mu$ S/cm, 84 $\mu$ S/cm, 1413 $\mu$ S/cm, 12.88mS/cm, 111.8mS/cm or Custom	•	•	•	•
TDS	Measuring Range	0~10.00, 100.0, 1000ppm, 10.00, 100ppt (Max. 200ppt)*	—	•	—	•
	Accuracy	$\pm$ 1% F.S	—	•	—	•
	Resolution	0.01, 0.1, 1	—	•	—	•
	TDS Factor	0.01~1.00 (Default 0.5)	—	•	—	•
Salinity	Measuring Range	0.00~80.00ppt, 0.00~42.00psu*	—	—	•	•
	Accuracy	$\pm$ 1% F.S	—	—	•	•
	Resolution	0.01, 0.1, 1	—	—	•	•
	Measurement Modes	Practical Salinity (psu) or Natural Seawater (ppt)	—	—	•	•
Resistivity	Measuring Range	0.00~20M $\Omega$ *	—	—	—	•
	Accuracy	$\pm$ 1% F.S	—	—	—	•
	Resolution	0.01, 0.1, 1	—	—	—	•
Temperature	Measuring Range	0~105 $^{\circ}$ C, 32~221 $^{\circ}$ F	•	•	•	•
	Accuracy	$\pm$ 0.5 $^{\circ}$ C, $\pm$ 0.9 $^{\circ}$ F	•	•	•	•
	Resolution	0.1 $^{\circ}$ C, 0.1 $^{\circ}$ F	•	•	•	•
	Calibration Points	1 point	•	•	•	•
General	Temperature Compensation	0~100 $^{\circ}$ C, 32~212 $^{\circ}$ F, Manual or Automatic	•	•	•	•
	Cell Constant	K=0.1, 1, 10 or Custom	•	•	•	•
	Temperature Coefficient	Linear (model 520), Linear and Pure water compensation (model 530/531/540)	•	•	•	•
	Reference Temperature	25 $^{\circ}$ C (model 520), 20 $^{\circ}$ C or 25 $^{\circ}$ C (model 530/531/540)	•	•	•	•
	Data Hold	Manual or Auto-Endpoint	•	•	•	•
	Stability Criteria	Low or High	•	•	•	•
	Calibration Due Alarm	1 to 31 days or Off	•	•	•	•
	Power Off	Manual or Automatic (10, 20 or 30 minutes after last key pressed)	•	•	•	•
	Memory	Stores up to 100 data sets (model 520), 500 data sets (model 530/531/540)	•	•	•	•
	Output	USB communication interface	•	•	•	•
	Connector	6-pin mini plug	•	•	•	•
	Power Requirements	3 $\times$ 1.5V AA batteries or DC5V power adapter	•	•	•	•
	Dimensions	170(L) $\times$ 85(W) $\times$ 30(H)mm	•	•	•	•
Weight	300g	•	•	•	•	

\* The meter must be equipped with the CON-0.1 and CON-10 conductivity electrodes for the full-range measurements.