

Bante 5 Series Portable Conductivity Meter



Measurement Parameters

- Bante 520: Conductivity, temperature
- Bante 530: Conductivity, TDS, temperature
- Bante 531: Conductivity, salinity, temperature
- Bante 540: Conductivity, TDS, salinity, resistivity, temperature

Bante 520 Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows the calibration points and factors
- Selectable cell constant, reference temperature, linear/non-linear and pure water compensation modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Setup menu allows setting the number of calibration points, temperature unit, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 100 data sets
- USB communication interface for data transfer or connecting a power adapter to meter



Bante 530/531/540 Features

- 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 factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Calibration due alarm prompts user to calibrate the meter regularly
- Auto-Power Off effectively conserves battery life
- Setup menu allows setting the number of calibration points, 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 PC
- Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly



Specifications

Model		Bante 520	Bante 530	Bante 531	Bante 540	
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0mS/cm	•	•	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	•
	Accuracy	\pm 0.5% F.S.	•	•	•	•
	Calibration Points	1 to 3 points (Bante 520), 1 to 5 points (Bante 530/531/540)	•	•	•	•
	Calibration Solutions	10 μ S/cm, 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm, 111.8mS/cm	•	•	•	•
TDS	Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	—	•	—	•
	Resolution	0.01, 0.1, 1	—	•	—	•
	Accuracy	\pm 1% F.S.	—	•	—	•
	TDS Factor	0.1~1.0 (default 0.5)	—	•	—	•
Salinity	Range	0.00~42.00psu, 0.00~80.00ppt	—	—	•	•
	Resolution	0.01	—	—	•	•
	Accuracy	\pm 1% F.S.	—	—	•	•
Resistivity	Range	0.00~20.00M Ω	—	—	—	•
	Resolution	0.01	—	—	—	•
	Accuracy	\pm 1% F.S.	—	—	—	•
Temperature	Range	0~105 $^{\circ}$ C/32~221 $^{\circ}$ F	•	•	•	•
	Resolution	0.1 $^{\circ}$ C/0.1 $^{\circ}$ F	•	•	•	•
	Accuracy	\pm 0.5 $^{\circ}$ C/ \pm 0.9 $^{\circ}$ F	•	•	•	•
	Offset Calibration	1 point, reading \pm 10 $^{\circ}$ C	•	•	•	•
Other Specifications	Temperature Compensation	0~100 $^{\circ}$ C, manual or automatic	•	•	•	•
	Temperature Coefficient	Linear (0.0~10.0%/ $^{\circ}$ C), non-linear, pure water	•	•	•	•
	Reference Temperature	20/25 $^{\circ}$ C	•	•	•	•
	Cell Constant	K=0.1, 1, 10	•	•	•	•
	Stability Criteria	Low or high	—	•	•	•
	Calibration Due Alarm	1 to 31 days or off	—	•	•	•
	Hold Function	Manual or auto-endpoint	•	•	•	•
	Auto-Off	30 minutes after last key pressed (Bante 520)	•	—	—	—
		10, 20 or 30 minutes after last key pressed (Bante 530/531/540)	—	•	•	•
	Memory	100 data sets (Bante 520), 500 data sets (Bante 530/531/540)	•	•	•	•
	Communication Interface	USB	•	•	•	•
	Connector	6-pin nemi-DIN, 3.5mm jack socket	•	•	•	•
	Display	Custom LCD (80 \times 60mm)	•	•	•	•
	Power Requirements	3 \times 1.5V AA batteries or DC5V power adapter	•	•	•	•
	Battery Life	Approximately 150 hours (Turn off the backlight)	•	•	•	•
Dimensions	170(L) \times 85(W) \times 30(H)mm	•	•	•	•	
Weight	300g	•	•	•	•	

Ordering Information

- Bante 520/530/531/540-**S** (for general purpose applications): Meter, CON-1 conductivity electrode, temperature probe, standard solutions and carrying case
- Bante 520/530/531/540-**DL** (for low conductivity measurements): Meter, CON-0.1 and CON-1 conductivity electrodes, temperature probe, standard solutions, carrying case
- Bante 520/530/531/540-**DH** (for high conductivity measurements): Meter, CON-1 and CON-10 conductivity electrodes, temperature probe, standard solutions, carrying case