

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 corrects conductivity measurements to the reference temperature
- 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 restores all settings 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 conversion 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 reminds users to calibrate the meter regularly
- Auto-power off effectively conserves battery life
- Setup menu allows setting the number of calibration points, stability criteria, date and time, temperature unit, 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
- Multi-mode power scheme (battery, power adapter and USB port) ensures the smooth operation of the meter



Specifications

Model			Bante 520	Bante 530	Bante 531	Bante 540
Conductivity	Range	0.01~20.00, 200.0, 2000 μ S/cm, 20.00, 200.0 mS/cm	•	•	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	•
	Accuracy	$\pm 0.5\%$ F.S.	•	•	•	•
	Calibration	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, 12.88 mS/cm, 111.8 mS/cm	•	•	•	•
TDS	Range	0~10.00, 100.0, 1000 ppm, 10.00, 200.0 ppt	—	•	—	•
	Resolution	0.01, 0.1, 1	—	•	—	•
	Accuracy	$\pm 1\%$ F.S.	—	•	—	•
	TDS Factor	0.1~1.0 (default 0.5)	—	•	—	•
Salinity	Range	0.00~42.00 psu, 0.00~80.00 ppt	—	—	•	•
	Resolution	0.01	—	—	•	•
	Accuracy	$\pm 1\%$ F.S.	—	—	•	•
Resistivity	Range	0.00~20.00 M Ω	—	—	—	•
	Resolution	0.01, 0.1	—	—	—	•
	Accuracy	$\pm 1\%$ F.S.	—	—	—	•
Temperature	Range	0~105°C/32~221°F	•	•	•	•
	Resolution	0.1°C/0.1°F	•	•	•	•
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	•	•	•	•
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$	•	•	•	•
Other Specifications	Temperature Compensation	0~100°C, manual or automatic	•	•	•	•
	Temperature Coefficient	Linear (0.0~10.0%/°C), non-linear, pure water	•	•	•	•
	Reference Temperature	20/25°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 nimi-DIN, 3.5mm jack socket	•	•	•	•
	Display	Custom LCD (80×60 mm)	•	•	•	•
	Power Requirements	3×1.5V AA batteries or 5V DC power adapter	•	•	•	•
	Battery Life	Approximately 150 hours (turn off the backlight)	•	•	•	•
	Dimensions	170(L)×85(W)×30(H) mm	•	•	•	•
	Weight	300 g	•	•	•	•

Ordering Information

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