

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
- DAS software is capable of receiving data, recording measurements at specified intervals, exporting data to Excel



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
- DAS software is capable of receiving data, recording measurements at specified intervals, exporting data to Excel
- 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...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...3 points (Bante 520), 1...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	•	•	•	•
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	•	•	•	•
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$	•	•	•	•
General	Temperature Compensation	0...100°C, manual or automatic	•	•	•	•
	Temperature Coefficient	Linear (0.0...10.0%/°C), pure water	•	•	•	•
	Reference Temperature	20/25°C	•	•	•	•
	Cell Constant	K=0.1/1/10 or custom	•	•	•	•
	Stability Criteria	Standard (Bante 520), Standard or strict (Bante 530/531/540)	•	•	•	•
	Calibration Due Alarm	1 to 31 days or off	—	•	•	•
	Hold Function	Manual or auto-lock endpoint	•	•	•	•
	Auto-Off	30 minutes after last key pressed (Bante 520)	•	•	•	•
		10/20/30 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 mini-DIN, 3.5 mm jack socket	•	•	•	•
	Display	Custom LCD (80×60 mm)	•	•	•	•
	Power Supply	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 and 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 and CON-10 conductivity electrodes, temperature probe, standard solutions, electrode clip, carrying case