

## Bante 510/950 Benchtop Conductivity Meter



### Measurement Parameters

- Bante 950E: Conductivity, temperature
- Bante 510: Conductivity, TDS, temperature
- Bante 950: Conductivity, TDS, salinity, resistivity, temperature

### Bante 510 Features

- 1 to 3 points calibration with automatic recognition for conductivity standards
- Selectable cell constant (0.1/1/10), temperature coefficient and TDS conversion factor
- 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, etc.
- Reset function automatically restores all settings to the factory defaults



### Bante 950E 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, etc.
- Reset function automatically restores all settings to the factory defaults
- Expanded memory stores or recalls up to 100 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

### Bante 950 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 corrects conductivity measurements to the reference temperature
- Auto-read function senses and locks the measurement endpoint
- Calibration due alarm reminds users to calibrate the meter regularly
- 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

## Specifications

	Model	Bante 950E	Bante 950	Bante 510
Conductivity	Range	0.01 $\mu\text{S/cm}$ ...200.0 $\text{mS/cm}$	0.01 $\mu\text{S/cm}$ ...200.0 $\text{mS/cm}$	0.01 $\mu\text{S/cm}$ ...200.0 $\text{mS/cm}$
	Resolution	0.001, 0.01, 0.1, 1	0.001, 0.01, 0.1, 1	0.001, 0.01, 0.1, 1
	Accuracy	$\pm 0.5\%$ F.S.	$\pm 0.5\%$ F.S.	$\pm 1\%$ F.S.
	Calibration	1...3 points	1...5 points	1...3 points
	Calibration Solutions	10 $\mu\text{S/cm}$ , 84 $\mu\text{S/cm}$ , 1413 $\mu\text{S/cm}$ , 12.88 $\text{mS/cm}$ , 111.8 $\text{mS/cm}$	10 $\mu\text{S/cm}$ , 84 $\mu\text{S/cm}$ , 1413 $\mu\text{S/cm}$ , 12.88 $\text{mS/cm}$ , 111.8 $\text{mS/cm}$	10 $\mu\text{S/cm}$ , 84 $\mu\text{S/cm}$ , 1413 $\mu\text{S/cm}$ , 12.88 $\text{mS/cm}$ , 111.8 $\text{mS/cm}$
TDS	Range	—	0.01 $\text{ppm}$ ...200.0 $\text{ppt}$	0.01 $\text{ppm}$ ...200.0 $\text{ppt}$
	Resolution	—	0.01, 0.1, 1	0.01, 0.1, 1
	Accuracy	—	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.
	TDS Factor	—	0.1...1.0 (default 0.5)	0.1...1.0 (default 0.5)
Salinity	Range	—	0.00...42.00 $\text{psu}$ , 0.00...80.00 $\text{ppt}$	—
	Resolution	—	0.01	—
	Accuracy	—	$\pm 1\%$ F.S.	—
Resistivity	Range	—	0.00...20.00 $\text{M}\Omega$	—
	Resolution	—	0.01, 0.1	—
	Accuracy	—	$\pm 1\%$ F.S.	—
Temperature	Range	0...105°C/32...221°F	0...105°C/32...221°F	0...105°C/32...221°F
	Resolution	0.1	0.1	0.1
	Accuracy	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	$\pm 0.5^\circ\text{C}/\pm 0.9^\circ\text{F}$	$\pm 1^\circ\text{C}/\pm 1.8^\circ\text{F}$
	Offset Calibration	1 point, reading $\pm 10^\circ\text{C}$	1 point, reading $\pm 10^\circ\text{C}$	1 point, reading $\pm 10^\circ\text{C}$
General	Temperature Compensation	0...100°C, manual or automatic	0...100°C, manual or automatic	0...100°C, manual or automatic
	Temperature Coefficient	Linear (0.0...10.0%/°C), pure water	Linear (0.0...10.0%/°C), pure water	Linear (0.0...10.0%/°C)
	Reference Temperature	20/25°C	20/25°C	25°C
	Cell Constant	K=0.1, 1, 10	K=0.1, 1, 10 or custom	K=0.1, 1, 10 or custom
	Stability Criteria	Standard	Standard or strict	Standard
	Calibration Due Alarm	—	1 to 31 days or off	—
	Calibration Factor Display	Yes	Yes	—
	Hold Function	Manual or auto-lock endpoint	Manual or auto-lock endpoint	Manual or auto-lock endpoint
	Memory	100 data sets	500 data sets	—
	Communication Interface	USB	USB	—
	Connector	6-pin mini-DIN, 3.5 mm jack socket	6-pin mini-DIN, 3.5 mm jack socket	6-pin mini-DIN, 3.5 mm jack socket
	Display	Custom LCD (125×100 mm)	Custom LCD (125×100 mm)	Custom LCD (135×75 mm)
	Power Supply	5V DC power adapter	5V DC power adapter	9V DC power adapter
Dimensions	210(L)×188(W)×60(H)mm	210(L)×188(W)×60(H)mm	210(L)×205(W)×75(H)mm	
Weight	1.5 kg	1.5 kg	1.5 kg	

## Ordering Information

- Bante 510/950E/950-S (for general water samples): Meter, CON-1 conductivity electrode, temperature probe, standard solutions, electrode holder, power adapter
- Bante 510/950E/950-DL (for low conductivity liquids): Meter, CON-0.1 and CON-1 conductivity electrodes, temperature probe, standard solutions, electrode holder, power adapter
- Bante 510/950E/950-DH (for high conductivity liquids): Meter, CON-1 and CON-10 conductivity electrodes, temperature probe, standard solutions, electrode holder, power adapter