

ECscan Series Pocket Conductivity Tester



ECscan10 Features

- 1 point push-button calibration allows the use of a custom calibration solution
- Platinum-black conductivity cell provides quick and reliable measurement results
- Automatic temperature compensation corrects conductivity measurements to the reference temperature
- Hold function momentarily freezes reading for easy viewing and recording
- Auto-power off effectively conserves battery life
- Replaceable electrode module reduces maintenance and replacement cost

Applications

- ECscan10L : For measuring the low conductivity liquids
- ECscan10M: For measuring the general water samples
- ECscan10H : For measuring the high conductivity liquids



ECscan20/30/40 Features

- Multi-range conductivity tester contains TDS and salinity measurement modes
- 1 to 3 points calibration with automatic recognition for conductivity standards
- 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, TDS conversion factor, temperature unit, auto-power off, etc.
- Reset function automatically restores all settings to the factory defaults

Measurement Parameters

- ECscan20: Conductivity, temperature
- ECscan30: Conductivity, TDS, temperature
- ECscan40: Conductivity, TDS, salinity, temperature



Ordering Information

- ECscan10L/M/H: Tester, conductivity standard solution
- ECscan20/30/40: Tester, conductivity standard solutions, USB cable, power adapter, carrying case

Replaceable Conductivity Electrodes



E-ECscan-C1-**100K**

- 2-pole conductivity cell
- Suitable for ECscan10L/M/H testers



E-ECscan-C1-**10K**

- 2-pole conductivity cell
- Suitable for ECscan20/30/40 testers

Specifications

	Model	ECscan10L	ECscan10M	ECscan10H	ECscan20	ECscan30	ECscan40
Conductivity	Range	1.0...199.9 $\mu\text{S}/\text{cm}$	10...1999 $\mu\text{S}/\text{cm}$	0.1...19.99 mS/cm	0...20.00, 200.0, 2000 $\mu\text{S}/\text{cm}$, 20.00 mS/cm		
	Resolution	0.1	1	0.01	0.01, 0.1, 1		
	Accuracy	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.		
	Calibration	1 point	1 point	1 point	1...3 points		
	Calibration Solutions	146.5 $\mu\text{S}/\text{cm}$	1413 $\mu\text{S}/\text{cm}$	12.88 mS/cm	84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm		
TDS	Range	—	—	—	—	0...10.00, 100.0, 1000 ppm, 20.00 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...10.00 ppt
	Resolution	—	—	—	—	—	0.01
	Accuracy	—	—	—	—	—	$\pm 1\%$ F.S.
Temperature	Range	0...50°C			0...60°C/32...140°F		
	Resolution	1			0.1		
	Accuracy	$\pm 1^\circ\text{C}$			$\pm 1^\circ\text{C}/\pm 1.8^\circ\text{F}$		
	Offset Calibration	—			1 point, reading $\pm 10^\circ\text{C}$		
General	Temperature Compensation	0...50°C, automatic			0...60°C, automatic		
	Temperature Coefficient	2%/°C			2%/°C		
	Reference Temperature	25°C			25°C		
	Cell Constant	K=1			K=1		
	Hold Function	Manual			Manual or auto-lock endpoint		
	Auto-Off	8 minutes after last key pressed			8 minutes after last key pressed		
	Operating Temperature	0...50°C			0...50°C		
	Display	Single-line LCD (21×21 mm)			Dual-line LCD (21×21 mm)		
	Power Supply	3×1.5V LR44 batteries			3.7V rechargeable battery		
	Battery Life	Approx. 150 hours of continuous use			Approx. 200 hours of continuous use		
	Dimensions	185(L)×40(Ø)mm			185(L)×40(Ø)mm		
	Weight	100 g			120 g		