

850 Value Series Portable Meters



- PH850 pH Meter
- EC850 Conductivity Meter
- PC850 pH/Conductivity Meter



Main Features

- Quick and easy 1- to 3-point auto. calibration
- Slope data display between calibrations reminds of the pH electrode condition
- Simultaneous measurement of pH and conductivity/TDS
- Complete settings for standard series, resolution, stability criteria, conductivity cell constant, TDS conversion factor, and more

Rubber boot protection

Rubber caps protecting the connectors



With calibration guide and self diagnosis function



IP57 waterproof rating



foldable holder;
Use as a benchtop meter.



Ergonomic design



Operation guide on the back

PH850 Portable pH Meters for Specialized Applications

Portable pH meters for special applications

PH850-DP pH Meter (Liquid Food pH test)  Electrode: LabSen 823 ATC pH electrode Electrode Feature: Protelyte electrolyte and silver-ion-trap reference prevents junction clogs in protein-containing samples. Application: liquid food e.g. milk, yogurt, cream, sauce, jam, etc.	PH850-FT pH Meter (Flat Surface Test)  Electrode: : LabSen 373 ATC Flat pH electrode Electrode Feature: Flat glass membrane, suitable for flat surface pH measurement. Application: skin, textiles, paper, and small-volume samples etc.
PH850-MS pH Meter (Micro volume measurement)  Electrode: LabSen 242-6 ATC pH electrode Electrode Feature: dimension of the sensor is $\Phi 6 \times 100\text{mm}$, fast-response S membrane Application: measurement for small volume samples (minimum volume: $60\mu\text{L}$) and in test tubes.	PH850-MT pH Meter (Meat pH test)  Electrode: LabSen 763 ATC Spear pH electrode Electrode Feature: food grade titanium sheath and blade, polymer electrolyte. Application: fresh meat, frozen meat, and meat products.
PH850-PW pH Meter (Purified water pH test)  Electrode: LabSen 803 ATC pH electrode Electrode Feature: movable sleeve junction, and L-type membrane designed for pure water and low ion concentration water solutions. Application: drinking/distilled/RO/deionized/boiler/storm/surface water	PH850-WW pH Meter (Waste water pH test)  Electrode: LabSen 333 ATC pH electrode Electrode Feature: Open junction+polymer electrolyte, high-resistance for contamination Application: wastewater, suspensions, suspensions, slurries, and other dirty liquids.
PH850-SS pH Meter (Soft-Solid Food pH test)  Electrode: LabSen 753 ATC Spear pH electrode Electrode Feature: food-grade titanium sheath, open junction for soft-solid food samples. Application: cheese, dough, fruit, sushi rice, etc.	PH850-SL pH Meter (Soil pH test)  Electrode: LabSen 553 ATC Spear pH electrode Electrode Feature: PVC housing, spear sensor for direct soil test. Application: soil (direct test, no slurry needed).
PH850-SA pH Meter (Strong Alkalies solutions pH test)  Electrode: LabSen 843 ATC pH Electrode Electrode Feature: HA Glass Membrane Application: High-Precision pH measurement in strong alkaline solutions (12-14 pH) and high-salinity solutions ($>5000\text{ppm}$/0.5%)	PH850-HT pH Meter (High-Temp Liquid and Caustic Solutions)  Electrode: LabSen 863 ATC pH Electrode Electrode Feature: Special PHY membrane and PTFE junction Application: High-accuracy pH measurement of corrosive and high-temp. solutions such as electroplating solutions.
PH850-HF pH Meter (Strong Acid solutions pH test)  Electrode: LabSen 833 ATC pH Electrode Electrode Feature: Special HF glass membrane Application: solutions containing Hydro fluoride acid or other strong acids.	PH850-BR pH Meter (Beverage Making)  Electrode: LabSen 213 ATC pH electrode Electrode Feature: LabSen S type hemispherical glass membrane, fast response and high robustness Application: Beverage making (beer, wine, juice, kombucha, etc.)



	Model	PH850	PC850	EC850
Parameter		pH/mV/Temp.	pH/mV/Cond./TDS/Temp.	Cond./TDS/Temp.
pH	Range	0 to 14.00 pH		/
	Resolution	0.1/0.01 pH		/
	Accuracy	±0.01 pH±1 digit		/
	Temp. Compensation	0 to 100°C(32 to 212°F), automatic or manual		/
	Automatic calibration	1 to 3 points		/
	Buffer standard	USA/NIST		/
	Stability setting	Yes		/
mV	Range	±1000 mV		/
	Resolution	1 mV		/
	Accuracy	±0.2% FS ±1 digit		/
Cond.	Range	/	0 to 200.0 mS/cm	
	Resolution	/	0.01/0.1/1 µS, 0.01/0.1 mS	
	Accuracy	/	±1%F.S±1 digit	
	Electrode constant	/	0.1/1.0/10.0 cm ⁻¹	
	Temp. compensation	/	0 to 50°C (32 to122°F) auto. or manual	
	Reference temperature	/	15 to 30°C	
	Temp. compensation coefficient	/	0 to 9.99%/°C	
	Calibration	/	1 to 3 points automatic	
TDS	Range	/	0.1 ppm to 100 ppt	
	TDS coefficient	/	0.40 to 1.00	
Temp.	Range	0 to 100°C (32 to 212°F)		
	Resolution	0.1°C, 0.1/1°F		
	Accuracy	±0.5°C±1 digit, ±1.0°F±1 digit		
Function	Display	LCD		
	Stable reading indicator	with ☺ icon		
	Automatic hold	Yes		
	Date and time	N/A		
	Data storage	N/A		
	Auto. timing datalogger	N/A		
	Self-diagnosis	Yes		
	USB output	N/A		
	Electrode connection	pH: BNC; Conductivity: 4 pin connector; Temp: RCA		
	IP rating	IP57 waterproof		
Others	Power	AA alkaline battery (1.5V×3)		
	Dimension/weight meter only	88×170×33mm/313g		
	Dimension/weight kit	360×270×76mm/1.3kg		