









Portable pH meter for special application

<p>PH8500-SS pH meter (Soft-Solid Food pH test)</p>  <p>Meter: PH8500 Electrode: LabSen753 3-in-1 pH electrode Electrode feature: food grade stainless steel sheath, solid electrolyte, suitable for soft-solid food samples. Application: cheese, bread, fruit, sushi rice, etc.</p>	<p>PH8500-BS pH meter (Meat pH test)</p>  <p>Meter: PH8500 Electrode: LabSen763 3-in-1 pH electrode Electrode feature: food grade stainless steel sheath and blade, solid electrolyte, suitable for solid food samples. Application: fresh meat and meat products, etc.</p>
<p>PH8500-DP pH meter (Liquid Food pH test)</p>  <p>Meter: PH8500 Electrode: LabSen823 3-in-1 pH electrode Electrode feature: Protelyte electrolyte prevents the junction from being blocked by reaction with protein. Application: liquid food e.g. milk, yogurt, cream, sauce, jam.</p>	<p>PH8500-PW pH meter (Purified water pH test)</p>  <p>Meter: PH8500 Electrode: LabSen803 3-in-1 pH electrode Electrode feature: movable sleeve junction, suitable for purified water and low ion concentration solution. Application: drinking water, distilled water, RO water, deionized water, etc</p>
<p>PH8500-WW pH meter (Waste water pH test)</p>  <p>Meter: PH8500 Electrode: LabSen333 3-in-1 pH electrode Electrode feature: non-diaphragm junction, solid electrolyte, hard to be contaminated and blocked. Application: waste water, suspension, emulsion etc.</p>	<p>PH8500-SL pH meter (Soil pH test)</p>  <p>Meter: PH8500 Electrode: LabSen553 3-in-1 pH electrode Electrode feature: PVC plastic housing, more rugged, spear sensor for direct soil test. Application: soil (direct test, no slurry needed).</p>
<p>PH8500-MS pH meter (Micro volume measurement)</p>  <p>Meter: PH8500 Electrode: LabSen242-6 3-in-1 pH electrode Electrode feature: dimension of the sensor is $\Phi 6 \times 100\text{mm}$ Application: measurement for small volume samples ($>0.2\text{mL}$) and test in testing tubes.</p>	<p>PH8500-HF pH Meter (Strong Acid solutions pH test)</p>  <p>Meter: PH8500 Electrode: LabSen831 pH Electrode and MP500 Temp. Electrode Electrode feature: special HF glass membrane allows test in HF containing solutions for up to 1000 times (concentration $<1\%$). Application: solutions containing Hydro fluoride acid or other strong acids.</p>

ORP electrode, conductivity electrode and temperature electrode

301Pt-C	Plastic ORP combination electrode	Dimension : $\Phi 12 \times 160\text{mm}$, gel electrolyte, BNC connector, range: $\pm 2000\text{mV}$.
2310T-S	Plastic conductivity electrode	K=10 built-in 30k Ω thermistor, 4 pin connector, range: 20~200mS/cm.
DJS-0.1-S	Glass conductivity electrode	K=0.1 built-in 30k Ω thermistor, 4 pin connector, range: 0~200 $\mu\text{S}/\text{cm}$.
MP500	Temperature electrode	$\Phi 5$ stainless steel probe, range: $-10 \sim 110^\circ\text{C}$, RCA connector, 30k Ω thermistor.

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APERA
INSTRUMENTS



Portable Water Analysis Meter

850 Series
8500 Series

pH
ORP
Resistivity
TDS
Salinity
DO (Optical)

3-YEAR WARRANTY
on all instruments



850 Series Portable Meter

- PH850 pH Meter pH/mV/Temp.
- EC850 Conductivity. Meter Cond./TDS/Temp.
- PC850 pH/Conductivity. Meter pH/mV/Cond./TDS/Temp.

Main features

- Equipped with ATC pH and conductivity electrodes, convenient to use
- The most economical choice for a reliable portable meter
- Simple operation; easy to use



8500 Series Portable Meter

- PH8500 pH Meter pH/mV/Temp.
- EC8500 Conductivity. Meter Cond./TDS/Temp.
- PC8500 pH/Conductivity Meter pH/mV/Cond./TDS/Temp.

Main Features

- Equipped with ATC pH and conductivity electrodes, convenient to use
- Conform to GLP data management standard
- USB data output



Table 1 Portable pH and cond. Meter Model Comparison







						
Model		PH850	PH8500	EC850	EC8500	
Parameter		pH/mV/Temp		Cond./TDS/Temp	Cond./TDS/Sal/Temp	
pH	Range	0 to 14.00 pH	-2.00 to 16.00 pH			
	Resolution	0.1/0.01 pH				
	Accuracy	±0.01 pH±1 digit				
	Temp.compensation	0 to 100°C (32 to212°F), automatic or manual				
	Automatic calibration	1 ~ 3 points	1 ~ 3 points			
	Buffer solution	USA/NIST	USA/NIST/CUS			
	Calibration reminding	No	Yes			
	Calibration time checking	No	Yes			
	Stability setting	Yes	Yes			
mV	Range	±1000mV	±1999mV			
	Resolution	1mV	±0.1/1mV			
	Accuracy	±0.2% FS ±1 digit	±0.1% FS ±1 digit			
Conductivity	Range	0~200.0mS/cm				
	Resolution	0.01/0.1/1μS, 0.01/0.1mS				
	Accuracy	±1%F.S±1 digit				
	Electrode constant	0.1/1.0/10.0 cm-1				
	Auto temp. compensation	0 to 50°C (32 to122°F)				
	Criterion temperature	15~30 °C				
	Temp. compensation coefficient	0~9.99%/°C				
	Calibration	1~3 points automatic				
	Calibration standard			Standard	Standard/CUS	
	Calibration reminding			No	Yes	
	Calibration time checking			No	Yes	
	TDS	Range	0.1mg/l~100 g/l			
		TDS coefficient	0.40~1.00			
Salinity	Range			No	0~100 ppt	
Temp.	Range	0~ 100°C ; 32.0 ~ 212 °F				
	Resolution	0.1°C ; 0.1/1°F				
	Accuracy	±0.5°C±1 digit ; ±0.9°F±1 digit				
Function	Display	LCD (no backlight)	LCD (white backlight)	LCD (no backlight)	LCD (white backlight)	
	Stable measuring indication	with 😊 icon				
	Automatic hold	Yes	Yes	Yes	Yes	
	Date and time	No	Yes	No	Yes	
	Data storage	No	500 sets	No	500 sets	
	Timing storage	No	Yes	No	Yes	
	Self-diagnosis information	Yes	Yes	Yes	Yes	
	USB output	No	Yes	No	Yes	

Table 2 Portable pH/cond. Meter Model Comparison

				
Model		PC850	PC8500	
Parameter		pH/mV/Cond./TDS/Temp	pH/mV/Cond./TDS/Sal/Temp	
pH	Range	0 to 14.00 pH	-2.00 to 16.00 pH	
	Resolution	0.1/0.01 pH		
	Accuracy	±0.01 pH±1 digit		
	Temp. compensation	0 to 100°C (32 to212°F) , automatic or manual		
	Automatic calibration	1~3 points	1~3 points	
	Buffer solution	USA/NIST	USA/NIST/CUS	
	Calibration reminding	No	Yes	
	Calibration time checking	No	Yes	
	Stability setting	Yes	Yes	
mV	Range	±1000mV	±1999mV	
	Resolution	1mV	±0.1/1mV	
	Accuracy	±0.2% FS ±1 digit	±0.1% FS ±1 digit	
Conductivity	Range	0~200.0mS/cm		
	Resolution	0.01/0.1/1μS, 0.01/0.1mS		
	Accuracy	±1%F.S±1 digit		
	Electrode constant	0.1/1.0/10.0 cm-1		
	Auto temp. compensation	0 to 50°C (32 to122°F)		
	Criterion temperature	15~30 °C		
	Temp. compensation coefficient	0~9.99%/°C		
	Calibration	1~3 points automatic		
	Calibration standard	Standard	Standard/CUS	
	Calibration reminding	No	Yes	
	Calibration time checking	No	Yes	
	TDS	Range	0.1mg/l~100 g/l	
		TDS coefficient	0.40~1.00	
Salinity	Range	No	0~100 ppt	
Temp.	Range	0~ 100°C ; 32.0 ~ 212°F		
	Resolution	0.1°C ; 0.1/1°F		
	Accuracy	±0.5°C±1 digit ; ±0.9°F±1 digit		
Function	Display	LCD (no backlight)	LCD (white backlight)	
	Stable measuring indication	with 😊 icon		
	Automatic hold	Yes	Yes	
	Date and time	No	Yes	
	Data storage	No	500 sets	
	Timing storage	No	Yes	
	Self-diagnosis information	Yes	Yes	
	USB output	No	Yes	
	Electrode connector	pH electrode: BNC; Conductivity electrode: 4 pin connector		
IP rating	IP57 waterproof rating (float on water)			
Electrode	PH: 201T-F; Conductivity: 2301T-S			
Others	Power	AA battery (1.5V×3)		
	Dimension/weight only meter	88×170×33mm/313g		
	Dimension/weight with case	360×270×76mm/1.3kg		