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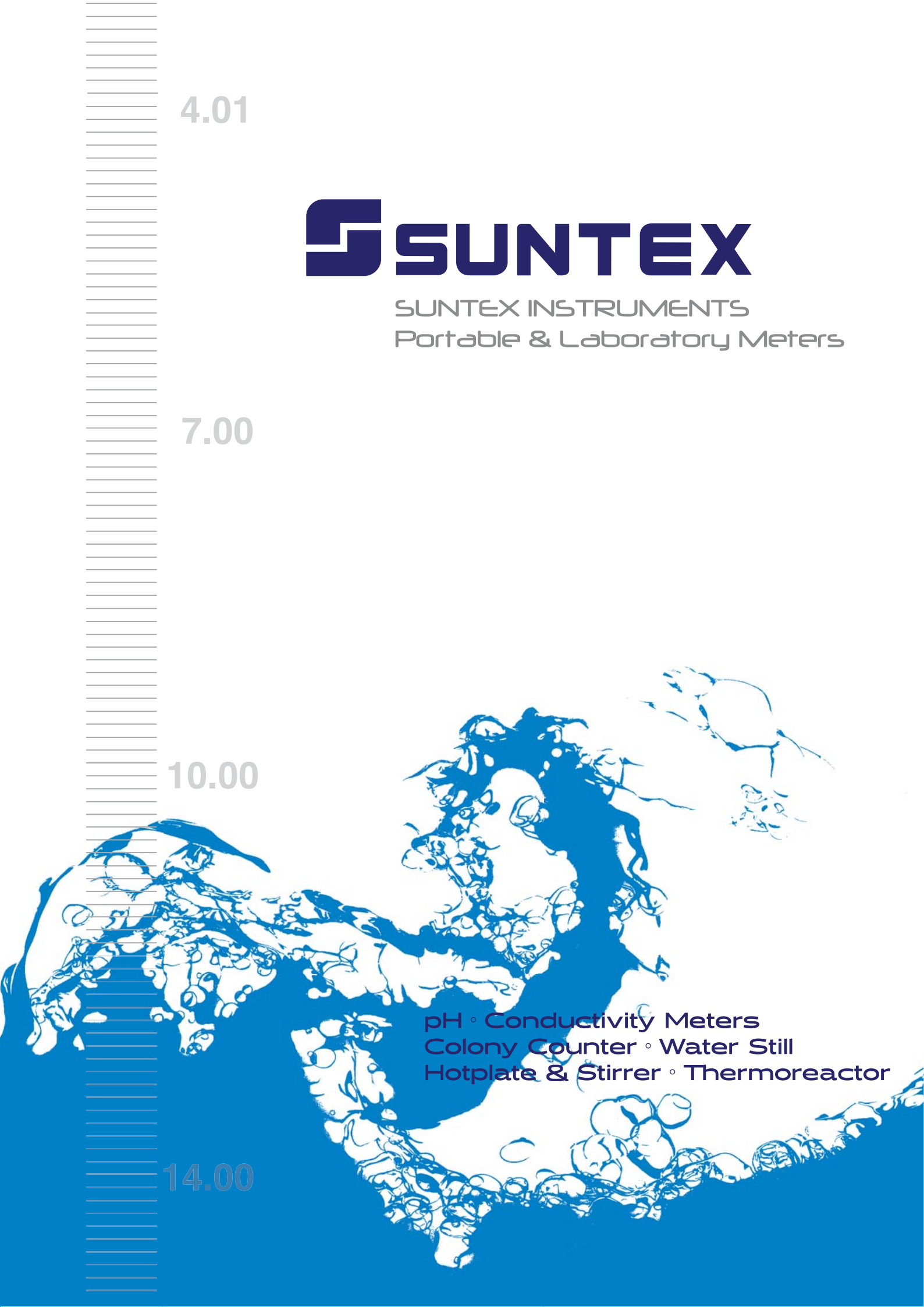
SUNTEX INSTRUMENTS  
Portable & Laboratory Meters

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pH • Conductivity Meters  
Colony Counter • Water Still  
Hotplate & Stirrer • Thermoreactor



## About Suntex

Suntex Instruments Company Ltd, established in 1982, has gained prestige and trust from our customers for dedication of providing professional, high-quality water analysis products and first-rate customer service.



40 Years Quality Solution & Service

## Online Measurement and Control

Through 40 years experience and innovation, Suntex has launched its fifth generation of pH transmitter PC-3110, we called it intelligent transmitter, in 2010. The new intelligent transmitter series includes pH/ORP, Conductivity/Resistivity, and Dissolved Oxygen models which are the most important parameters in the process controlling. The intelligent transmitter features to 1/4 DIN housing with IP65 protection, graphical menu, last calibration and overview of setting at a glance, and auto-sense backlight display, etc. There are also RS-485 Modbus models and PID controlling models to satisfy various demands. All of them are the proof of our continuous research and development to make the online measurement and controlling easier and more reliable.



## Portable and Laboratory Instruments

The accuracy and reliability of the Suntex portable and Laboratory instruments is guaranteed by the online measurement experience. Suntex provide a variety of pH/ORP, Conductivity/Resistivity/TDS/Salinity portable and benchtop meters to universities, research centers, environment inspection labs, and applications of various industries. There are also Colony Counter, COD Thermoreactor, Hotplate & Stirrer, and Automatic Waterstill for most of general laboratories usage.



## ISO 9001: 2000 Certificated since 2001

Suntex Instruments has been certificated by TUV Management Service GmbH, Germany since 2001 for Distribution of Instruments & Equipments and Development and Production of Meters & Transmitters.



[www.suntex.com.tw/en](http://www.suntex.com.tw/en)

— Visit for more information

## Products Comparison:

### Portable Meters

Model Features	pH/ORP			pH/ORP/ION	Cond./Res./TDS/Salinity	
	TS-1	TS-210	TS-230	TS-250	SC-210	SC-230
Auto Calibration	Tuning	⊙	⊙	⊙	⊙	⊙
Temp. Measurement		⊙	⊙	⊙	⊙	⊙
Main Range	0~14 pH	-2~20 pH		-2~20 pH 0~999,999ppm	0 μS/cm ~200mS/cm	0 μS/cm ~1000mS/cm
pH/ION Resolution: Up to Three Decimal			⊙	⊙		
Calibration	2 point	3 point	5 point	5 point	5 point	5 point
Cal Data		1 set	10 set	10 set	1 set	10 set
Auto Read		⊙	⊙	⊙	⊙	⊙
IP65 Water Proof		⊙	⊙	⊙	⊙	⊙
Data Logger		100	50,000	50,000	100	50,000
Data Output			Micro USB	Micro USB		Micro USB
USB Power Charge			⊙	⊙		⊙
Password Protection			⊙	⊙		⊙

### Benchtop Meters

Model Features	pH/ORP			pH/ORP/ION		Cond./Res./TDS/Salinity	
	SP-2110 Routine	SP-2110	SP-2310	SP-2500	SP-2510	SC-2110	SC-2310
Main Range	-2~16 pH	-2~20 pH		-2~16 pH 0~1999.9ppm	-2~20 pH 0~999,999ppm	0 μS/cm ~200mS/cm	0 μS/cm ~1000mS/cm
pH/ION Resolution: Up to Three Decimal			⊙	⊙	⊙		
Calibration	3 point	3 point	5 point	5 point	5 point	5 point	5 point
Cal Data		10 set	50 set	1 set	50 set	10 set	50 set
Auto Read	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Status Light		⊙	⊙		⊙	⊙	⊙
Data Logger		200	60,000	500	60,000	200	60,000
Data Output	Printer Only	Printer Only	USB-C	RS-232	USB-C	Printer Only	USB-C
Time & Date		⊙	⊙		⊙	⊙	⊙
Cal. Reminder		⊙	⊙	⊙	⊙	⊙	⊙
USB Power Charge	⊙	⊙	⊙		⊙	⊙	⊙
Password Protection			⊙		⊙		⊙
3 min. chart display			⊙		⊙		⊙

### Water Still

Model	WS-400	WS-440	WS-800
Output Capacity	4L/hr, Single distilled	4L/hr, Double distilled	8L/hr, Single distilled
Conductivity Monitor	⊙	⊙	⊙
Auto Clean	⊙	⊙	⊙

## SP-2110/ SP-2310 pH/ORP/Temp. Meter

### Unleash research potential with the arrival of the next-gen benchtop meter

Discover innovation in SP-2110 and SP-2310, boasting a sleek design with breathing light function buttons. With a USB Type-C port for a stable power supply and connection to a printer. Encompassing various brands of standard solutions and calibration reminder function provides greater flexibility for calibration. Additionally, both display calibration graphics for educational purposes. SP-2310 has the ability to switch and display a 3-minute trend graph.

#### Features:

- ◆ Switch between Celsius and Fahrenheit temperature
- ◆ Auto-Read function status indicator light (breathing light)
- ◆ Calibration features both linear and segmented calibration modes
- ◆ Integrated multi-brand standard solution table for targeted calibration
- ◆ An integral pH calibration graph can be displayed after the calibration
- ◆ USB Type-C power supply function and the ability to connect to an array printer
- ◆ Provides various display options, including calibration standard solutions or real-time potential
- ◆ Calibration reminder function can display the remaining calibration days and pop-up notifications

#### SP-2310 only

- ◆ Provides up to five-point calibration
- ◆ Display a 3-minute real-time chart
- ◆ Provide setting and calibration passcode function
- ◆ Stores up to 60,000 data and 50 calibration records
- ◆ Reliable USB Type-C connection for data transfer to the computer



Model		SP-2110	SP-2310
Measuring range	pH	-2~20pH	
	ORP	-2000~2000mV	
	Temperature	-10.0~110.0°C / 14.0~230.0°F	
Resolution & Accuracy	pH	0.01pH, ±0.01pH	0.001pH, ±0.001pH
	ORP	1mV/0.1mV, ±0.05%	
	Temperature	0.01°C, ±0.2°C/0.01°F, ± 0.4°F	
Auto-Read function		Yes	
Auto power-off		Yes (Built-in timer)	
Temperature Compensation		Automatic with NTC 30K or PT-1000 or manual adjustment	
Calibration	pH	TECH, NIST, Any, MERCK, Mettler US/EU, WTW, Hach, Hamilton, JIS Z8802, User-defined table	
		Up to 3 points calibration	Up to 5 points calibration
	ORP	Relative potential adjustment range: ±300.0mV	
Data transmitting		USB-C (RS-232 protocol) printing	USB-C (RS-232 protocol) printing and to computer
Data storage		Auto/Manual, 200 sets	Auto/Manual, 60,000 sets
		(Measurement, temp., time, date, user_ group ID, sample No.)	
Calibration record		The last 10 calibration records (GLP)	The last 50 calibration records (GLP)
Display		4.3"Graphic LCM backlight display, with manual brightness adjustment function	
Power Supply		USB Type-C or 6V Adapter Transformer (optional)	
Dimensions		220mm x 180mm x 65mm (L x W x H)	
Weight		0.5kg	

**What's included?** ATC probe, Flexible electrode holder, Buffer solutions pH4.01 & 7.00 (30ml each), USB wire, AC/DC adapter

## SP-2110-Routine pH/ORP/Temp. Meter

### Simplicity & reliability: Core functions for all your needs

SP-2110-Routine model achieves a flawless harmony between its elegant appearance and its functionality. A new generation of membrane key design offers a smoother experience. The user-friendly USB Type-C port of the SP-2110-Routine serves dual purposes – connecting to a printer for real-time measurement output and providing power supply. Equipped with the Auto-Read function, it can swiftly and automatically read and lock the endpoint test value. By combining various standard solution brands, this feature enables three calibration points, providing flexibility. Moreover, zero point and slope keypads help for easy manual calibration and display shows real-time mV value for reference. Unique theory-visualization calibration mode shows dynamic cal. curve for education purposes.



### Features:

- 💧 Auto-Read function
- 💧 Screen can display calibration standard solutions or real-time potential
- 💧 Comprehensive pH calibration graph can be displayed after the calibration
- 💧 Linear and segmented calibration modes are available
- 💧 Integrated multi-brand standard solution table for targeted calibration
- 💧 Automatic temperature compensation with NTC30K/PT1000
- 💧 USB Type-C power supply function and the ability to connect to an array printer
- 💧 Optional 6V transformer power supply, without conflicting with USB power supply
- 💧 Switch between Celsius and Fahrenheit temperature

Model		SP-2110-Routine
Measuring range	pH	-2~16pH
	ORP	-2000~2000mV
	Temperature	-10.0~110.0°C / 14.0~230.0°F
Resolution	pH	0.01pH, ±0.01pH
	ORP	1mV/0.1mV, ±0.05%
	Temperature	0.01°C, ±0.2°C/0.01°F, ± 0.4°F
Auto-Read function		Yes
Auto power-off		Yes (Built-in timer)
Temperature Compensation		Automatic with NTC30K or PT1000 or manual adjustment
Calibration	pH	Up to 3 points calibration / TECH, NIST, Any, MERCK, JIS Z8802, Mettler US/EU, Define Buffers
	ORP	Relative potential adjustment range: ±300.0mV
Data transmitting		USB Type-C interface with RS-232 protocol for printer
Data storage		N/A
Calibration record		Only the latest record
Display		4.3"Graphic LCM backlight display, with manual brightness adjustment function
Power supply		USB Type-C or 6V Adapter Transformer (optional)
Dimensions		194mm x 82mm x 38mm (L x W x H)
Weight		0.5kg

**What's included?** ATC probe, Flexible electrode holder, Buffer solutions pH4.01 & 7.00 (30ml each), USB wire, AC/DC adapter



## SP-2510 pH/ORP/Temp./Ion Meter

### New benchtop meter leads the new wave of scientific research

Inheriting the elegant style of SUNTEX's products, the "Breathe Light" of function key is even more ingeniously designed to intuitively display the measurement status. SP-2510 features USB Type-C power supply and the capability to connect to a printer. Generous memory capacity accommodates an impressive 60,000 sets of measurement data. The intuitive and visual calibration graphics make it especially suitable for educational purposes, setting it apart not only with its calibration reminder function but also with its uniqueness. The screen offers diverse display modes catering to specific experimental data needs. Linear and segmented calibration modes allow for flexible selection of the most suitable calibration method. Encompassing various brands of standard solutions, this provides greater flexibility for your calibration needs. It can display a 3-minute trend graph, continuously tracking changes in sample values. Also, features ion selective method and direct reading of ppm unit.



#### Features:

- 💧 Auto-Read function status indicator light (breathing light)
- 💧 The calibration records comply with GLP standards
- 💧 Provides various display options, including calibration standard solutions or real-time potential
- 💧 Calibration reminder function can display the countdown of calibration days
- 💧 Comprehensive pH calibration graph can be displayed after the calibration
- 💧 Calibration features both linear and segmented calibration modes
- 💧 Integrated multi-brand standard solution table for targeted calibration
- 💧 USB Type-C power supply function and the ability to connect to an array printer
- 💧 Switch between Celsius and Fahrenheit temperature
- 💧 Stores up to 60,000 data and 50 calibration records
- 💧 Display a 3-minute real-time chart
- 💧 Provide setting and calibration passcode function
- 💧 Reliable USB Type-C connection for data transfer to the computer

Model		SP-2510
Measuring range	pH	-2~20pH
	ORP	-2000~2000mV
	Temperature	-10.0~110.0°C / 14.0~230.0°F
	ION	0.001~999,999 ppm; 0.001~999.99 µmol/L 1.000~999,999 mmol/L; -2~20pX
Resolution & Accuracy	pH	0.01pH, ±0.01pH
	ORP	1mV/0.1mV, ±0.05%
	Temperature	0.01°C, ±0.2°C/0.01°F, ± 0.4°F
	ION	0.001ppm, ±0.5% ppm
Auto-Read function		Yes
Auto power-off		Yes (Built-in timer)
Temperature Compensation		Automatic with NTC30K or PT1000 or manual adjustment
Calibration	pH	Up to 5 points calibration / TECH, NIST, Any, MERCK, JIS Z8802, Mettler US/EU, Define Buffers
	ORP	Relative potential adjustment range: ±300.0mV
	ION	Up to 5 points calibration
Data transmitting		Two USB-C for connecting PC and printer(RS-232 protocol)
Data storage		Auto/Manual, 60,000 sets (Measurement, temp., time, date, user_ group ID, sample No.)
Calibration record		The last 50 calibration records
Display		4.3"Graphic LCM backlight display, with manual brightness adjustment function
Power supply		USB Type-C or 6V Adapter Transformer (optional)
Dimensions		194mm x 82mm x 38mm (L x W x H)
Weight		0.5kg

**What's included?** ATC probe, Flexible electrode holder, Buffer solutions pH4.01 & 7.00 (30ml each), USB wire, AC/DC adapter

## SP-2500 pH/ORP/Temp./Ion Meter

### Convenient time-interval recorder eases the lab work

The SP-2500 is compatible with GLP requirement. There are built-in calibration timer and counter for reminder to make sure the validity of your measurements. The advanced up-to-five point linear regression calibration provides for the most demanding research. The advanced data logger function allows the meter automatically save the measurement with time interval up to 500 sets and can direct transmit the data through RS-232 interface to a computer or a printer. Thus, the user may leave until the work is done. The front membrane keypad matches IP43 level waterproof protection to prevent accidental leak of sample solution. The SP-2500 features ion selective method & direct reading of ppm unit.



### Features:

- ◆ Auto self-test function, error code indication
- ◆ Large LCD display with backlight function
- ◆ Temperature compensation with PT-1000 or NTC probe with auto recognition and temperature correction function
- ◆ Auto-Read function
- ◆ Gradually continuous sample measurements average function to enhance stability
- ◆ Auto save the measurement with programmable time interval setting, min. 5 seconds
- ◆ Data-logger with memory for 500 data sets
- ◆ Up to 5-point auto calibration, shows offset and slope after calibration
- ◆ Custom definition buffer setting table calibration
- ◆ Built-in real time clock with programmable timer for auto power-off, GLP calibration, & data logger
- ◆ RS-232 interface for print or saved data transfer or time-interval measurement output
- ◆ Ion-selective measurement

Model		SP-2500
Measuring mode		pH / ORP / Temperature / ION
Measuring range	pH	-2.00~16.00pH / -2.000~16.000pH
	ORP	-1999~1999mV / -1999.9~1999.9mV
	Temperature	-10.0~110.0°C
	ION	0.001~1999.9ppm (mg/l)
Resolution & Accuracy	pH	0.01 / 0.001pH, $\pm 0.01$ / $\pm 0.005$ pH ( $\pm 1$ Digit)
	ORP	1/0.1mV, $\pm 0.05\%$ ( $\pm 1$ Digit)
	Temperature	0.1°C, $\pm 0.2^\circ\text{C}$ (Max.)
	ION	1 / 0.1 / 0.01 / 0.001ppm (mg/l), $\pm 0.5\%$ ( $\pm 1$ Digit)
Auto-Read function		Yes
Auto power-off		Yes (Built-in timer)
Temperature Compensation		Automatic with PT-1000 or NTC 30K or manual adjustment
Calibration	pH	Auto Tech./NIST or Manually Any buffer, or Custom definition buffer setting calibration, up to 5 points calibration
	ION	Up to 5 points Ion calibration
Rel. ORP		Relative potential adjustment range: $\pm 300$ mV
GLP calibration cycle		Count or timer settable, range: 0~9999 times or hours
Input impedance		$\geq 10^{12}\Omega$
Display		3/4" Back-lit LCD display
RS-232 interface		Single way transfer the data to a computer or a printer
		Dual way by Modbus protocol
Data storage		Auto/Manual, 500 sets (measurement, temp., time, date, ID, number)
Power consumption		Max. 1W
Power Supply		4 x AA Batteries
		6V DC Adaptor (100~240VAC, 50/60Hz)
Dimensions		220mm x 190mm x 70mm (L x W x H)
Weight		0.7kg

**What's included?** ATC probe(8-08-2), Flexible electrode holder, Buffer solutions pH 4.01 & pH 7.00(30ml), 100~240V AC/DC adapter

# TS-250 pH/ORP/Temp./Ion Portable Meter

## TS-210/TS-230 pH/ORP/Temp. Portable Meter

### As a high-performance lab meter in your hand

The TS-210/230/250 portable meters with IP65 water resistance are safe in humid environments. Backlight allows user to read under dim light. Rich functions under a simple and easy-to-understand graphical menu. With dual-layer passcode protection, it is able to prevent improper operation and protect stored data from being deleted. At least 3 points of calibration enable a wide range of calibrated measurements. More measured values memory, and the records comply with GLP standards. The TS-230/250 provides convenient data transmitting, and it can be connected to a computer to directly retrieve .txt files as a USB flash driver. The TS-250 features ion selective method and direct reading of ppm unit.

### Features:

- Light, handy, easy-to-use, IP65 water resistance and low power consumption
- 3" Graphic LCM backlight display, with manual brightness adjustment function
- Vertical display, and complete graphical icon with text information menu
- Auto-Read function
- Automatic temperature compensation with NTC30K/PT1000
- Display pH sensor status and battery status
- 3/5-point calibration and provide the calibration records and the electrode's slope



### TS-230 and TS-250 only

- Provide setting and calibration passcode function
- Up to 50,000 sets of measured values memory with GLP standards
- Display the last 10 calibration records
- Ion-selective measurement (TS-250 only)

Model		TS-210	TS-230	TS-250
Measuring mode		pH/ORP		pH/ORP/Ion
Measuring range	pH	-2~20pH		-2~20pH
	ORP	-2000~2000mV		-2000~2000mV
	Temperature	-10.0~110.0°C		-10.0~110.0°C
	Ion	—		0.001~999,999 ppm
Resolution & Accuracy	pH	0.01pH, ±0.01	0.001pH, ±0.005°C	0.001pH, ±0.005°C
	ORP	1mV/0.1mV, ±0.05%	1mV/0.1mV, ±0.05%	1mV/0.1mV, ±0.05%
	Temperature	0.1°C, ±0.2°C	0.1°C, ±0.2°C	0.1°C, ±0.2°C
	Ion	—	—	0.001ppm, ±0.5% ppm
Auto-Read function		Yes		
Auto power-off		Yes (Built-in timer)		
Temperature compensation		Automatic with NTC30K or PT1000 or manual adjustment		
Data storage		Auto/Manual, 100 sets (Measurement, temp., time, date, user_group ID, sample No.)	Auto/Manual, 50,000 sets (Measurement, temp., time, date, user_group ID, sample No.)	
Data transmitting		None	Micro USB (USB Micro-B)	
Calibration	pH	Auto Tech, NIST, Manually any buffer, or customized definition buffer table mode, up to 3 points calibration (Linear)	Auto Tech, NIST, Manually any buffer, or customized definition buffer table mode, up to 5 points calibration (Linear)	
	ORP	Relative potential adjustment range: ±300.0mV		
	Ion	—	—	Up to 5 points calibration (Linear, Segmented)
Calibration record		The last calibration record (GLP)	The last 10 calibration records (GLP)	
Passcode		None	Yes	
Display		3" Graphic LCM backlight display, with manual brightness adjustment function		
Sensor connector		pH/mV: BNC (Input impedance > 1012Ω), Temperature: Banana		
Power supply		4 x 1.5V AA or 1.2V NiMH Batteries	4 x 1.5V AA or 1.2V NiMH Batteries, Micro USB power delivery function (No battery charging function)	
Dimensions		194mm x 82mm x 38mm (L x W x H)		
Weight		243g		
Protection		IP65		

**What's included?** ATC probe, Buffer Solution pH 4.01, pH7.00, Distilled Water(30ml each) , Carrying Case



## TS-1 pH/ORP Portable Meter

### Classic model with high accuracy at economical price

The TS-1 is a classic & popular pH/ORP portable meter. It features for easy to use tuning calibration, and it is also designed for light weight to carry along with a meter strap as a standard accessory. The meter can also read mV for ORP measurement to enable your flexibility with just the press of a button. There is a manual temperature input tuning knob for accurate temperature compensation, and it is very pragmatic for field measurement especially in a stable temperature environment. The TS-1 stands out from various economical portable meters with accurate and durable quality that you can surely trust on.

#### Features:

- ♦ Elegant, robust, easy-to-use design
- ♦ Accurate to  $\pm 0.01$  pH
- ♦ High stability, low drift and quick response
- ♦ Manual temperature input for temperature compensation
- ♦ Membrane keypad
- ♦ Clear LCD display, battery operated
- ♦ Splash resistant
- ♦ Light weight, handy strap for easy carrying
- ♦ Suitable for field and laboratory



Model		TS-1
Measuring mode		pH/ORP
Measuring range	pH	0.00~14.00pH
	ORP	-1999~1999mV
Resolution	pH	0.01pH
	ORP	1mV
Accuracy	pH	$\pm 0.01$ pH ( $\pm 1$ Digit)
	ORP	$\pm 0.1\%$ ( $\pm 1$ Digit)
Temperature Compensation		manual adjustment 0°C~100°C
Slope adjustment		Yes
Input Connector		BNC
Input impedance		$\geq 10^{12}\Omega$
Display		0.5" LCD display
Battery life		1000 hours
Power Supply		1 X 9V Battery
Dimensions		168mm x 75mm x 23mm (L x W x H)
Weight		0.2kg

**What's included?** Buffer solutions pH 4.01, pH 7.00, & distilled water(30ml each), carrying case, meter's strap

## SC-2110/ SC-2310 Conductivity/ Resistivity/Salinity/TDS/Temp. Meter

### Extreme lab performance for a wide range of applications

SC-2110 and SC-2310 have a sleek design with integrated breathing status lights for enhanced usability. The USB Type-C port connects to a printer for data output and provides power. Featuring an ample memory capacity, it stores crucial measurement data and calibration records. Both can use preset or customizable standard solutions for precise experiments and accurate data. Calibration reminder function displays the countdown and notifications visually on the screen. Salinity and TDS modes enhance versatility across applications while maintaining reliability. SC-2310 displays a 3-minute trend graph for continuous sample value monitoring.

#### Features:

- ♠ Equipped with TDS, Salinity mode
- ♠ Auto-Read function status indicator light (breathing light)
- ♠ Fixed cell constant can be freely switched or adjusted as needed
- ♠ Various display options, including cell constant and specific temperature for calibration
- ♠ Calibration reminder function can display the countdown of calibration days
- ♠ USB Type-C power supply function and the ability to connect to an array printer
- ♠ Switch between Celsius and Fahrenheit temperature

#### SC-2310 only

- ♠ Conductivity range up to 1000mS/cm
- ♠ Stores up to 60,000 data and 50 calibration records
- ♠ Display a 3-minute real-time chart
- ♠ Provide setting and calibration passcode function
- ♠ Reliable USB Type-C connection for data transfer to the computer



Model		SC-2110	SC-2310
Measuring mode		Conductivity / Resistivity / TDS / Salinity / Temperature	
Measuring range	Conductivity	0 $\mu$ S/cm ~200 mS/cm	0 $\mu$ S/cm ~1000 mS/cm
	Resistivity	0 ~ 20 M $\Omega$ ·cm	0 ~ 100 M $\Omega$ ·cm
	TDS	0~2000 ppm (mg/L), 0~200 ppt (g/L)	0~2000 ppm (mg/L), 0~1000 ppt (g/L)
	Salinity	0 ~ 70 ppt	
	Temperature	-10.0~110.0°C / 14.0~230.0°F	
Resolution & Accuracy	Conductivity	$\mu$ S /cm: 0.001 / 0.01 / 0.1 / 1, $\pm$ 0.5% ( $\pm$ 1Digit) mS/cm: 0.01 / 0.1 / 1 (SC-2310 Only), $\pm$ 0.5% ( $\pm$ 1Digit)	
	Resistivity	0.01 M $\Omega$ ·cm, $\pm$ 1%	
	TDS	1 ppm / 0.1ppt, $\pm$ 0.5%	
	Salinity	0.01 ppt, $\pm$ 0.5%( $\pm$ 1Digit)	
	Temperature	0.1/0.01°C, $\pm$ 0.2°C ( $\pm$ 1Digit) ; 0.1/0.01°F, $\pm$ 0.4°F ( $\pm$ 1Digit)	
Auto-Read function		Yes	
Auto power-off		Yes (Built-in timer)	
Temperature Compensation		Automatic with NTC 30K or PT-1000 or manual adjustment	
Temperature coefficient		Linear(0~40%), Non-Linear, None compensation	
Data storage		Auto/Manual, 200 sets	Auto/Manual, 60,000 sets
		(Measurement, temp., time, date, user_ group ID, sample No.)	
Data transmitting		USB Type-C and RS-232 for printing	USB Type-C and RS-232 for printing and computer
Manual calibration		Single point of known or cell constant calibration	
Standard solution calibration		Up to 5 point calibration ; Default 7 standard solutions: 10, 23, 84, 447, 1413 $\mu$ S/cm & 12.88, 80mS/cm adjustable	
Calibration record		The last 10 calibration records (GLP)	The last 50 calibration records (GLP)
Passcode		None	Yes
Display		4.3"Graphic LCM backlight display, with manual brightness adjustment function	
Power supply		USB Type-C or 6V Adapter Transformer (optional)	
Dimensions		220 mm x 180 mm x 65 mm (L x W x H)	
Weight		0.5kg	

**What's included?** Flexible electrode holder, USB wire, AC/DC adapter

# SC-210/SC-230 Conductivity/Resistivity/ Salinity/TDS/Temp. Portable Meter

## As a high-performance lab meter in your hand

The SC-210/SC-230 portable meters with IP65 water resistance are safe in humid environments. Backlight allows user to read under dim light. Rich functions under a simple and easy-to-understand graphical menu. The meter is compatible with a 4-electrode cell which allows a wide range of applications from medium to high conductivity solutions and also for salinity and TDS. When combines with a resistivity cell, it measures very low to medium conductivity water such as pure water with high accuracy. More measured values memory, and the records comply with GLP standards. The SC-230 with dual-layer passcode protection, it is able to prevent improper operation and protect stored data from being deleted.

### Features:

- Light, handy, easy-to-use, IP65 water resistance, and low power consumption
- Auto-read function
- 3" Graphic LCM backlight display, with manual brightness adjustment function
- Vertical display, and complete graphical icon with text information menu
- Salinity and TDS correction function
- Automatic temperature compensation with NTC30K/PT1000
- Temperature compensation: Linear compensation for conductivity measurement
- Non-Linear compensation for resistivity or pure water measurement
- Calibration can be set for cell constant manually or up to 5 point automatic recognition of standard solutions



### SC-230 only

- Provide setting and calibration passcode function
- Up to 50,000 sets of measured values memory with GLP standards
- Providing convenient data transmission with Micro-USB to computer
- Micro USB power delivery function (No battery charging function)
- Display the last 10 calibration records

Model		SC-210	SC-230
Measuring mode		Conductivity / Resistivity / TDS / Salinity / Temperature	
Measuring range	Conductivity	0μS/cm ~200mS/cm	0μS/cm ~1000mS/cm
	Resistivity	0 ~ 20 MΩ·cm	0 ~ 100 MΩ·cm
	TDS	0~2000 ppm(mg/L), 0~200 ppt(g/L)	0~2000 ppm(mg/L), 0~1000 ppt(g/L)
	Salinity	0 ~ 70ppt	
	Temperature	-10°C~110°C	
Resolution & Accuracy	Conductivity	μS /cm: 0.001 / 0.01 / 0.1 / 1, ±0.5%	
	Resistivity	0.01 MΩ·cm, ±1%	
	TDS	1ppm / 0.1ppt, ±0.5%	
	Salinity	1 ppm, ±0.5% (±1 digit)	
	Temperature	0.1°C /0.01°C,±0.2°C	
Auto-Read function		Yes	
Auto power-off		Yes (Built-in timer)	
Temperature compensation		Automatic with NTC30K or PT1000 or manual adjustment	
Temperature coefficient		Linear(0~40%), Non-Linear, None compensation	
Data storage		Auto/Manual, 100 sets (Measurement, temp., time, date, user_group ID, sample No.)	Auto/Manual, 50,000 sets (Measurement, temp., time, date, user_group ID, sample No.)
Data transmitting		None	Micro USB(USB Micro-B)
Manual calibration		Single point of known or cell constant calibration	
Standard solution calibration		Up to 5 point calibration ; Default 7 standard solutions: 10, 23, 84, 447, 1413μS/cm & 12.88, 80mS/cm adjustable	
Calibration record		The last calibration record(GLP)	The last 10 calibration records (GLP)
Power Supply		4 x 1.5V AA or 1.2V NiMH Batteries	4 x 1.5V AA or 1.2V NiMH Batteries Micro USB power delivery function (No battery charging function)
Dimensions		194mm x 82mm x 38mm (L x W x H)	
Weight		246g	
Protection		IP65	

**What's included?** Micro-usb, Carrying Case

## pH/ORP/Ion Meter Accessories

pH/ORP Sensors	
Model	Description
InLab Easy BNC	Premium plastic pH Combination electrode
InLab Routine BNC	Premium glass pH Combination electrode
PH1000	Basic plastic pH Combination electrode
SG200C	Basic glass pH Combination electrode
InLab Redox	Premium ORP Combination electrode
Redox cable	Cable for premium ORP Combination electrode
Standard buffers	
Model	Description
8-03	Standard buffer pH4.01, 500ml
8-04	Standard buffer pH7.00, 500ml
8-23	Standard buffer pH10.00, 500ml
8-13	3 mol/l KCL solution, 500ml
8-03-T	NIST Traceable buffer pH4.01, 500ml
8-04-T	NIST Traceable buffer pH7.00, 500ml
8-23-T	NIST Traceable buffer pH10.00, 500ml
Electrode Holder and Carrying case	
Model	Description
FA-1W-01	Replacement flexible electrode holder
8-32-1	Replacement carrying case
8-08-2	Replacement ATC Probe



Standard buffer, 500ml



Flexible electrode holder with pH and temp. probe

## Conductivity/Resistivity Meter Accessories

Conductivity/Resistivity probes	
Model	Description
8-243	Standard 4-electrode conductivity probe (cell constant 0.475) with 1.2m fixed cable, Range: 10 $\mu$ S/cm~500mS/cm, Epoxy/graphite
8-222-01	Pure water 2-electrode resistivity probe(cell constant 0.05) Range: 0.00~20.00M $\Omega$ ·cm, 0.00~200.0 $\mu$ S/cm, PTFE/ Titanium
8-221-01	Ultra-pure water 2-electrode resistivity probe(cell constant 0.01) Range: 0.00~20.00M $\Omega$ ·cm, 0.00~50.0 $\mu$ S/cm, PTFE/ Titanium
Accessories for resistivity probe	
Model	Description
8-101D	Cable for 8-221-01/8-222-01 resistivity probe, 1.2M
8-103D	Cable for 8-221-01/8-222-01 resistivity probe, 3M
8-TF02	3/4" NPT bypass chamber for resistivity probe
Conductivity Standard Solution	
Model	Description
8-EC1413-2	Conductivity Standard Solution, 1,413 $\mu$ S/cm, 500ml
8-EC84-2	Conductivity Standard Solution, 84 $\mu$ S/cm, 500ml
8-EC5-2	Conductivity Standard Solution, 5 $\mu$ S/cm, 500ml
8-EC23-2	Conductivity Standard Solution, 23 $\mu$ S/cm, 500ml
8-EC447-2	Conductivity Standard Solution, 447 $\mu$ S/cm, 500ml
8-EC12880-2	Conductivity Standard Solution, 12.88 mS/cm, 500ml
8-EC80000-2	Conductivity Standard Solution, 80.0 mS/cm, 500ml



Resistivity probe with bypass chamber



Cable for resistivity probe

## 570 Colony Counter

### With Pressure Sensor System

The 570 is designed with all solid state circuitry, and the pressure sensor system provides uniform sensitivity over the whole of working field; suitable for counting bacteria growing on all agar contained in different size of petri dishes.

The model has adapted the latest electronic type ring-shaped lamp for its illuminating device. At a touch, the fluorescent tube lights up directly or indirectly over the entire petri plate surface for a steady, no-glare and quiet illumination; providing the operator the most comfortable working environment. The number of counts is capable of being registered to maximum of 4-digit, i.e.9999, and displayed on bright red LED. The adjustable focusing arm enables the magnifying glass to be placed at various angles of working position. The focusing arm can also accommodate lens of various magnitude.

Intelligent counting technology enables the Colony Counter 570 to count with any kind of marking pen. Every time a count is registered, the beeper gives an audible signal to verify entry.



### Features:

- ◆ Built-in electronic register on deluxe model – operated by any pen
- ◆ Pressure sensor system provides uniform sensitivity over the whole of the working field
- ◆ A reset button provides immediate zeroing of the 4-digit counter
- ◆ Flexible adjuster accepts 10 cm to 15 cm petri dishes
- ◆ Adjustable focusing arm allows 1.5x standard lens to be raised or lowered up to your preference
- ◆ Lens can be rotated 360° for ready access to petri plates
- ◆ Background plate can be changed to white or black for easy counting

Model	570
Working principle	Pressure sensor system provides uniform sensitivity over the whole of the working field
Readout	4-digit bright red 0.6" LED display
Petri dish holder	Accept 10cm to 15cm dish with flexible adjuster
Illumination	Ring-shaped fluorescent lamp, 30W
Zero Reset Button	Yes
Modes of Counting	Marking pen counting (any pen)
Ambient Temperature	5°C~50°C
Power Supply	110VAC±10% / 220VAC±10% (Switchable), 50/60Hz
Dimensions	330mm x 300mm x 100mm (L x W x H)
Weight	6.5kg

**What's included?** 1.5x auxiliary, Adjustable focusing arm, Marking pen, Power cord with plug, Dust cover



## SH-301 Hotplate & Stirrer

### All-in-one ceramic top & safety-first design

The SH-301 is designed for your general laboratory applications. This hotplate & stirrer features all-in-one glass-ceramic top providing uniform heating, easy-to-clean, and resistant to scratches, corrosions and chemicals.

### Safety-first philosophy design:

- Hot warning indicating light: Automatic warning when temperature of the ceramic top is over 55°C
- Overheating protection safety device: Automatic heat cutoff when the heating temp is over 550°C
- Splash resistant design: Avoiding sample permeating from the plate or switch



### Features:

- Easy and user-friendly operation
- Precise heating and accurate temperature control
- Integrated glass-ceramic top plate: easy clean, chemical-resistant, corrosion-resistant, and scrap-resistant
- LED indicators for Power, Heating, and Stirring
- Safety design
- Special circuit board design for power saving and efficient heat distributing
- Microprocessor adjustable speed control from 60~1100 rpm
- Advanced motor for extremely smooth rotation, low noise and long life

Model		SH-301	SH-301A
Function		Hotplate / Stirrer	
Top plate	Material	Glass Ceramic	
	Dimensions	200mm x 200mm	
Speed	Range	60~1100rpm	
	Control	Adjustable	
Temperature	Range	Ambient temperature to 450°C	
	Control	Adjustable	
Heating capacity		Max. 750W	
Hot warning indicator		Yes	
Heating indicator		Yes	
External temperature probe		No	
Ambient Temperature		5°C~40°C	
Power Supply		110VAC ±10%, 50/60Hz	220VAC ±10%, 50/60Hz
Dimensions		320mm x 210mm x 117mm (L x W x H)	
Weight		3.6kg	

**What's included?** Power cord with plug, 1" Stir bar

## TR-1100 COD Thermoreactor

### Precise digital temperature control & safety-first design

The TR-1100 features six pre-set common programs to ease the lab work. It also allows an user-tailored program for repeated custom procedures. The digital display provides precise temperature setting.

### Safety-first philosophy design:

- Hot warning status light: to indicate heating progress
- PPS board on the top to minimize risk of scald
- Auto stop when end of running time
- Overheating protection safety device: Automatic heat cutoff when the heating temperature is over 220°C
- Splash resistant design: Avoiding sample permeating from panel



### Features:

- Ideal tube tests for COD, TOC, total nitrogen, total phosphate, total chromium, etc.
- COD digestion and specialized tasks in wastewater treatments and laboratories
- PPS board fully insulated heater block for protection
- Program started with auto or manual mode selectable after finishing pre-heating
- Auto stop when end of running time
- Easy and friendly to use
- Large LCD screen with status LED indicator
- Light and sound alarm to indicate complete of digestion
- Six pre-stored and one user defined programs with pre-heating function
- Automatically back to last mode when powering on
- Built-in real time clock
- Overheating protection device

Model	TR-1100	TR-1100A
Reactor type	Dry temperature control device	
Number of vial cells	16 cells shafts for reaction cell 16mm $\pm$ 0.2mm	
Temperature setting	100°C, 120°C, 150°C, via fixed programs, and 50°C to 199°C user setting	
Controlling accuracy	$\pm$ 1°C ( $\pm$ 1 digit)	
Temperature stability	$\pm$ 1°C	
Heating rate (with empty thermoblock) from 25°C to	100°C approx. 5.5 min.	100°C approx. 5 min.
	120°C approx. 7.5 min.	120°C approx. 6 min.
	150°C approx. 10.5 min.	150°C approx. 9 min.
	199°C approx. 16.5 min.	199°C approx. 15 min.
Pre-stored programs	150°C / 2 hour	
	150°C / 20 min.	
	120°C / 2 hour	
	120°C / 1 hour	
	120°C / 30 min.	
	100°C / 1 hour	
Programmable temp. range	50°C~199°C	
Programmable time range	0~18 hours, Audio signal and heating stopped when the time expired	
Temperature correction	$\pm$ 9°C adjust for thermoblock	
Ambient temperature	10°C~50°C	
Overheating protector	Auto stop heating when temperature over 220°C	
Power supply	110VAC $\pm$ 10%, 50/60Hz	220VAC $\pm$ 10%, 50/60Hz
Power consumption	290W	250W
Dimensions	320mm x 210mm x 103mm (L x W x H)	
Weight	Approx. 3kg	

**What's included?** Power cord with plug

# Microprocessor Automatic Water Still

## WS400 / WS440 / WS800



### Features:

- ◆ Highest purity, pyrogen free distillate
- ◆ Advanced microprocessor control & front panel keypad design for easy operation
- ◆ Output of 4L/hour, 8L/hour, & 4L/hour Bi-distilled
- ◆ Multi-color LED indication alarm for easy status recognition
- ◆ Built-in conductivity measurement system to ensure quality of outlet water
- ◆ Auto condenser clean function with detergent adding flow cell for easy maintenance
- ◆ Built-in liquid level switches for auto shutting off when the storage reservoir is full
- ◆ Overheating cut-off protection for safe operation
- ◆ Auto diagnosis when powering on the system
- ◆ Installation of benchtop or wall mounting

### Introduction:

The SUNTEX Microprocessor automatic water still is available with output of 4L/hr or 8L/hr, and can be benched or wall mounted. The water still produces the very highest quality pyrogen free water. Purity is also assured through the borosilicate glass(Boilers and Condensers) construction and the use of durable, silica sheathed heating elements.

### Convenient automatic operation:

Combined with the microprocessor, the unique WS series water still simplifies operation and cleaning procedures. The still is supplied with a float switch which automatically shuts off the water still when the storage reservoir is full, enabling safe, unattended operation.

### Safety in operation:

A high temperature cut-off system protects the heaters in the events of water-input failure and low level of water in boiler. The heater can be recovered from the automatic overheating cut-off by reset.

### Pretreated feed option:

All stills can be used with pretreated reverse osmosis(RO), deionized or purified water. The pretreatment removes many contaminants from feed water to keep the glass clean.

### Specifications:

Model	WS-400	WS-440	WS-800
Controlling method	Microprocessor controlled		
Production per hour	4 kilolitre	4 kilolitre Double distilled	8 kilolitre
Temperature of condenser inlet water	Suggested temperature: lower than 35°C		
Pressure of condenser inlet water	70-560kPa		
Flow of condenser inlet water	1 liter/min		
pH value	5.0~6.5		
Conductivity	1.00~2.00μS/cm	1.00~1.50μS/cm	1.00~2.00μS/cm
Water quality monitoring	Display the conductivity of distilled water		
boiler and condenser	1 set	2 set	
Heating equipments	2 quartz heating pipes	4 quartz heating pipes	
Safety Protection	YES		
Boiler liquid level control	YES		
Water container liquid level control	YES		
Ambient temperature	0~50°C		
Storage temperature	0~70°C		
Power supply	AC 220V±10%, 50/60Hz		
Applied power	3.2kW	6.2kW	
Connection	Tap water: 3/8" ID, Pretreated: 1/4" NPT(M), Drain: 3/8" ID		
Installation	Bentchtop or wall mounting		
Dimensions (W x H x D)	570 x 380 x 250 mm	570 x 380 x 420 mm	
Weight	17.6kg	26.1kg	25.8kg

Note: It is recommended to connect with a circuit breaker in between power supply.

**What's included?** 3m distilled water sanitary silicone outlet tube, 15m tap water condenser inlet/outlet tube, External reservoir liquid level sensor, 3m power cord without plug

**Optional Accessory:** ST-60 Reservoir tank 60L





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