



4.01

SUNTEX

SUNTEX INSTRUMENTS
Portable & Laboratory Meters

7.00

10.00

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

14.00

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.



30 Years Quality Solution & Service

Online Measurement and Control

Through 30 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.



Products Comparison:

Portable Meters

| Features | Model | pH/ORP/ION | pH/ORP | | Cond./Res./TDS/Salinity | |
|---|-------|------------|--------|--------|-------------------------|--------|
| | | TS-130 | TS-110 | TS-100 | TS-1 | SC-110 |
| Tuning Calibration | | | | | ☉ | |
| Temp. Measurement | | ☉ | ☉ | ☉ | | ☉ |
| Auto Calibration | | ☉ | ☉ | ☉ | | ☉ |
| Auto Read | | ☉ | ☉ | ☉ | | ☉ |
| IP65 Protection | | ☉ | ☉ | ☉ | | ☉ |
| Data Logger | | ☉ | ☉ | | | ☉ |
| RS-232 Output | | ☉ | ☉ | | | ☉ |
| pH/ION Resolution: Up to Three Decimal | | ☉ | ☉ | | | |

Benchtop Meters

| Features | Model | pH/ORP/ION | pH/ORP | | Cond./Res./TDS/Salinity |
|---|-------|------------|---------|---------|-------------------------|
| | | SP-2500 | SP-2300 | SP-2100 | SC-2300 |
| Tuning Calibration | | | | ☉ | |
| Auto Calibration | | ☉ | ☉ | ☉ | ☉ |
| Auto Read | | ☉ | ☉ | ☉ | ☉ |
| Backlight Display | | ☉ | ☉ | ☉ | ☉ |
| Data Logger | | ☉ | ☉ | | ☉ |
| RS-232 Output | | ☉ | ☉ | ☉ | ☉ |
| pH/ION Resolution: Up to Three Decimal | | ☉ | ☉ | | |
| GLP Calibration Timer/ Counter | | ☉ | ☉ | | |

Laboratory Instruments

| Model | Colony Counter | Water Still | Hotplate & Stirrer | | COD Thermoreactor | |
|-------------|----------------|-------------|--------------------|---------|-------------------|----------|
| | 570 | WS Series | SH-301 | SH-301A | TR-1100 | TR-1100A |
| 110VAC ±10% | ☉ | | ☉ | | ☉ | |
| 220VAC ±10% | ☉ | ☉ | | ☉ | | ☉ |

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 | ☉ | ☉ | ☉ |
| Overheat Protection | ☉ | ☉ | ☉ |

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

SP-2300 pH/ORP/Temp. Meter

Convenient time-interval recorder eases the lab work

The SP-2500 and SP-2300 are 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 (SP-2500 only)

| Model | | SP-2300 | SP-2500 |
|--------------------------|-------------|---|---|
| Measuring mode | | pH / ORP / Temperature | 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, ±0.01 / ±0.005pH (±1Digit) | |
| | ORP | 1/0.1mV, ±0.05% (±1Digit) | |
| | Temperature | 0.1°C, ±0.2°C (Max.) | |
| | ION | — | 1 / 0.1 / 0.01 / 0.001ppm (mg/l), ±0.5% (±1Digit) |
| 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: ±300mV | |
| GLP calibration cycle | | Count or timer settable, range: 0~9999 times or hours | |
| Input impedance | | ≥10 ¹² Ω | |
| 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(500ml), 100~240V AC/DC adapter

SP-2100 pH/ORP/Temp. Meter

Easy to use and dual types of calibration

The SP-2100 combines the tuning calibration and microprocessor auto calibration technology. The tuning calibration starts from zero point cal. to slope cal. which provides a vivid idea about the calibration principle for education purpose. The auto calibration applies up to 3-points TECH. buffer calibration method to meet the requirement of qualified inspection labs. The meter inherits our reliable technology which features in accurate, reliable and easy to use functions.

Features:

- ◆ Microprocessor control with human engineering design
- ◆ 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
- ◆ Two kinds of calibration:
 - Built-in TECH. Buffer automatic recognition, up to 3-point auto calibration, showing offset and slope after calibration
 - Manual knob-adjustment calibration
- ◆ RS-232 interface compatible with MODBUS protocol



| Model | | SP-2100 |
|--------------------------|-------------|---|
| Measuring mode | | pH / ORP / Temperature |
| Measuring range | pH | -2.00~+16.00pH |
| | ORP | -1999~1999mV |
| | Temperature | -10.0~110.0 °C |
| Resolution | pH | 0.01pH |
| | ORP | 1mV |
| | Temperature | 0.1°C |
| Accuracy | pH | ±0.01pH (±1 digit) |
| | ORP | ±0.05% (±1 digit) |
| | Temperature | ±0.2 °C (±1 digit) |
| Auto-Read function | | Yes |
| Temperature Compensation | | Automatic with PT-1000 or NTC 30K or -30.0°C~+130.0 °C manual adjustment |
| Calibration | | Built-in Tech Buffers automatic recognition, up to 3-point auto calibration, showing offset and slope after calibration Manual knob-adjustment dual points calibration |
| Input impedance | | ≥10 ¹² Ω |
| Display | | 3/4" Back-lit LCD display |
| RS-232 interface | | Yes, RS-232 (Print/MODBUS-RTU) |
| 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 | | 0.8kg |

What's included? ATC probe(8-08-2), Flexible electrode holder, Buffer solutions pH 4.01 & pH 7.00(500ml), 100~240V AC/DC adapter

TS-130 pH/ORP/Temp./Ion Portable Meter

TS-110/TS-100 pH/ORP/Temp. Portable Meter

As high performance lab meter in your hand

The TS-130/110/100 portable meters feature microprocessor design with IP65 waterproof protection. The simultaneous display of main measurement and temperature value make it idea for making field record. The three points calibration design enable a wide range of calibrated measurement. The TS-130/110 applies data logger and RS-232 interface. The advanced data logger function can automatically save the measurement with time interval up to 500 sets, and it can direct transmit through RS-232 interface to a computer or a printer. Hence, it not only can be as field measuring but also as field recording without hand writing or manually pressing the save button. The TS-130 features ion selective method & direct reading of ppm unit.



Features:

- ◆ Light, handy, easy-to-use, IP65 water proof & low power consumption
- ◆ Large LCD display with temperature indication
- ◆ Automatic temperature compensation with PT-1000 or NTC probe
- ◆ Auto-Read function
- ◆ Gradually continuous sample measurements average function to enhance stability
- ◆ 1/2/3-point auto calibration, showing offset and slope after calibration
- ◆ Low-power consumption system allows operation up to 1000 hours

TS-110 and TS-130 only

- ◆ Resolution 0.01pH/ 1mV or 0.001pH/0.1mV selectable
- ◆ Auto save the measurement with programmable time interval setting, min. 5 seconds
- ◆ Data-logger with memory for 500 data sets
- ◆ Built-in real time clock with programmable timer for auto power-off & data logger
- ◆ RS-232 interface for print or saved data transfer or time-interval measurement output
- ◆ Ion-selective measurement (TS-130 only)

| Model | | TS-100 | TS-110 | TS-130 |
|--------------------------|-------------|---|--|---|
| Measuring mode | | pH/ORP/Temperature | | pH/ORP/Temp./Ion |
| Measuring range | pH | -2.00~16.00pH | -2.00~16.00pH / -2.000~16.000pH | |
| | ORP | -1999~ 1999mV | -1999~1999mV / -1999.9~1999.9mV | |
| | Temperature | -10.0°C~110.0°C | | |
| | ION | — | | 0.001~1999.9ppm (mg/l) |
| Resolution & Accuracy | pH | 0.01pH, ±0.01 (±1Digit) | 0.01 / 0.001pH, ±0.01/±0.005 (±1Digit) | |
| | ORP | 1mV, ±0.1% (± Digit) | 1/0.1mV, ±0.05% (±1Digit) | |
| | Temperature | 0.1°C, ±0.2°C (±1Digit) | | |
| | ION | — | | 0.1/0.01/0.001ppm (mg/l), ±0.5% (±1Digit) |
| RS-232 interface | | — | Single way transfer the data to a computer or a printer Dual way by Modbus protocol | |
| Data logger | | — | Auto/Manual, 500 sets, (measurement, temp., time, date, ID, number) | |
| 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 solution calibration, up to 3 points calibration | | |
| | ION | — | | Up to 3 points Ion calibration |
| Input impedance | | ≥10 ¹² Ω | | |
| Display | | 1/2" LCD display | | |
| Power Supply | | 4 x AA Batteries | | |
| Dimensions | | 184mm x 98mm x 38mm (L x W x H) | | |
| Weight | | 0.35kg | | |
| Protection | | IP 65 | | |

What's included? ATC probe, Buffer solutions pH 4.01, pH 7.00, & distilled water(30ml each), carrying case(8-32-1), Holding clip for pH electrode and temperature sensor

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 ± 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 | ± 0.01 pH (± 1 Digit) |
| | ORP | $\pm 0.1\%$ (± 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-2300 Conductivity/Resistivity/ Salinity/TDS/Temperature Meter

Compatible with state-of-art 4-electrode cell

The SC-2300 is a versatile meter with great reliability. The meter is compatible with 4-electrode cell which allows a wide range of application from medium to high conductivity solutions and also for salinity & TDS. When combines with resistivity cell, it measures very low to medium conductivity water such as pure water with high accuracy. The advanced data logger function allows the meter automatically measure and save with time interval up to 450 sets, and it 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.



Features:

- ◆ Auto self-test function, error code indication
- ◆ Large LCD display with backlight function
- ◆ Salinity and TDS correction function
- ◆ Temp. compensation: non-Linear compensation for resistivity or pure water measurement, Linear compensation for conductivity measurement
- ◆ Calibration can be set for cell constant manually or up to 5-point automatic recognition of standard solutions
- ◆ Temperature compensation with PT-1000 or NTC probe auto recognition
- ◆ 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 450 data sets
- ◆ Built-in real time clock for data logger
- ◆ RS-232 interface for print or saved data transfer or time-interval measurement output

| Model | SC-2300 | |
|-------------------------------|--|--|
| Measuring mode | Conductivity, Resistivity, Salinity, TDS, Temperature | |
| Measuring range | Conductivity | 0.00 μ S/cm~200.0mS/cm in 5 range for auto switch or manual switch |
| | Resistivity | 0.00~100.00M Ω ·cm |
| | Salinity | 0.0~70.0ppt |
| | TDS | 0~2000ppm |
| | Temperature | -10 $^{\circ}$ C~110 $^{\circ}$ C |
| Resolution & Accuracy | Conductivity | 0.01 μ S/cm, \pm 0.5% (\pm 1 digit) |
| | Resistivity | 0.01M Ω ·cm, \pm 1% (\pm 1 digit) |
| | Salinity | 0.1 ppt, \pm 0.5% (\pm 1 digit) |
| | TDS | 1 ppm, \pm 0.5% (\pm 1 digit) |
| | Temperature | 0.1 $^{\circ}$ C, \pm 0.2 $^{\circ}$ C (\pm 1 digit) |
| Temperature Compensation | Automatic with PT-1000 or NTC 30K or manual adjustment | |
| Temperature Coefficient | Non-Linear / 0.00~20.00% Linear | |
| Reference Temperature | T _{ref} 25 $^{\circ}$ C | |
| Manual Calibration | Single point of known or cell constant calibration | |
| Standard solution Calibration | Single or up to 5 points known standard solution calibration; default 5 standard solutions: 10 / 84 / 1413 μ S/cm & 12.88 / 100 mS/cm adjustable | |
| 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, 450 sets (measurement, temp., time, date, ID, number) | |
| Signal output | Yes | |
| Power Supply | 4 x AA Batteries | |
| | 6V DC Adaptor (100~240 VAC, 50/60 Hz) | |
| Battery Life | Around 100~500 hours according to measuring range and backlight | |
| Dimensions | 220mm x 190mm x 70mm (L x W x H) | |
| Weight | 0.8kg | |

What's included? Flexible electrode holder, 100~240V AC/DC adaptor

SC-110 Conductivity/Resistivity/ Salinity/TDS/Temp. Portable Meter

As high performance lab meter in your hand

The SC-110 portable meter features microprocessor design with IP65 waterproof protection. The meter is compatible with 4-electrode cell which allows a wide range of application from medium to high conductivity solutions and also for salinity & TDS. When combines with resistivity cell, it measures very low to medium conductivity water such as pure water with high accuracy. The advanced data logger function allows the meter automatically measure and save with time interval up to 450 sets, and it can direct transmit the data through RS-232 interface to a computer or a printer. Hence, it not only can be as field measuring but also as field recording without hand writing or manually pressing the save button.

Features:

- ◆ Light, handy, easy-to-use, IP65 water proof & low power consumption
- ◆ Auto self-test function, error code indication
- ◆ Large LCD display with temperature indication
- ◆ Auto-Read function
- ◆ Salinity and TDS correction function
- ◆ Temp. compensation: non-Linear compensation for resistivity or pure water measurement, Linear compensation for conductivity measurement
- ◆ Calibration can be set for cell constant manually or up to 5-point automatic recognition of standard solutions
- ◆ Temperature compensation with PT-1000 or NTC probe auto recognition
- ◆ 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 450 data sets
- ◆ Built-in real time clock for auto power-off & data logger
- ◆ RS-232 interface for print or saved data transfer or time-interval measurement output



| Model | | SC-110 |
|-------------------------------|--------------|---|
| Measuring mode | | Conductivity, Resistivity, Salinity, TDS, Temperature |
| Measuring range | Conductivity | 0.00 μ S/cm~200.0mS/cm in 5 range for auto switch or manual switch |
| | Resistivity | 0.00~100.00M Ω ·cm |
| | Salinity | 0.0~70.0ppt |
| | TDS | 0~2000ppm |
| | Temperature | -10°C~110°C |
| Resolution & Accuracy | Conductivity | 0.01 μ S/cm, \pm 0.5% (\pm 1digit) |
| | Resistivity | 0.01M Ω ·cm, \pm 1% (\pm 1digit) |
| | Salinity | 0.1 ppt, \pm 0.5% (\pm 1digit) |
| | TDS | 1 ppm, \pm 0.5% (\pm 1digit) |
| | Temperature | 0.1°C, \pm 0.2°C (\pm 1digit) |
| Temperature Compensation | | Automatic with PT-1000 or NTC 30K or manual adjustment |
| Temperature Coefficient | | Non-Linear / 0.00~10.00% Linear |
| Reference Temperature | | T _{ref} 25°C |
| Manual Calibration | | Single point of known or cell constant calibration |
| Standard solution Calibration | | Single or up to 5 points known standard solution calibration; default 5 standard solutions: 10 / 84 / 1413 μ S/cm & 12.88 / 100 mS/cm adjustable |
| Display | | 1/2" 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, 450 sets (measurement, temp., time, date, ID, number) |
| Power Supply | | 4 x AA Batteries |
| Battery Life | | Around 350~1000 hours according to measuring range; auto-shut down within 10 mins. without operation |
| Dimensions | | 185mm x 98mm x 38mm |
| Weight | | 0.35kg |
| Protection | | IP 65 |

What's included? Carrying case (8-32-1)

pH/ORP/Ion Meter Accessories

| pH/ORP Sensors | |
|-------------------------------------|---|
| Model | Description |
| InLab 437 | Premium plastic pH Combination electrode |
| InLab 439 | Premium glass pH Combination electrode |
| S150C | 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 |
| 8-05 | 3 mol/l KCL solution, 60ml |
| Electrode Holder and Carrying case | |
| Model | Description |
| FA-1W-01 | Replacement flexible electrode holder |
| 8-32-1 | Replacement carrying case |
| Auto temperature compensation probe | |
| Model | Description |
| 8-08-2 | Replacement ATC Probe |
| Signal Output Transmission Cable | |
| Model | Description |
| 8-30 | RS-232 signal transmission cable |



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 μ S/cm~500mS/cm, Epoxy/graphite |
| 8-222-01 | Pure water 2-electrode resistivity probe(cell constant 0.05) Range: 0.00~20.00M Ω -cm, 0.00~200.0 μ S/cm, PTFE/ Titanium |
| 8-221-01 | Ultra-pure water 2-electrode resistivity probe(cell constant 0.01) Range: 0.00~20.00M Ω -cm, 0.00~50.0 μ 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 |
| Electrode Holder and Carrying case | |
| Model | Description |
| FA-1W-01 | Replacement flexible electrode holder |
| 8-32-1 | Replacement carrying case |
| Signal Output Transmission Cable | |
| Model | Description |
| 8-30 | RS-232 signal transmission cable |



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 ±0.2mm | |
| Temperature setting | 100°C, 120°C, 150°C, via fixed programs, and 50°C to 199°C user setting | |
| Controlling accuracy | ±1°C (±1digit) | |
| Temperature stability | ±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 | ±9°C adjust for thermoblock | |
| Ambient temperature | 10°C~50°C | |
| Overheating protector | Auto stop heating when temperature over 220°C | |
| Power supply | 110VAC ±10%, 50/60Hz | 220VAC ±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 litres | 4 litres Double distilled | 8 litres |
| 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 | Bentchttop 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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