

## Electrical Safety Testers

**STW-9901 (AC 500VA) / STW-9801 (AC 200VA)**  
Withstanding Voltage Tester

**STW-9902 (AC 500VA) / STW-9802 (AC 200VA)**  
AC/DC Withstanding Voltage Tester

**STW-9903 (AC 500VA) / STW-9803 (AC 200VA)**  
AC/DC Withstanding Voltage/Insulation Resistance Tester

**STW-9904 (AC 500VA)**  
AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester

- 500VA and AC Test Capacity
- 240 x 64 Ice Blue Dot Matrix LCD
- Manual/Auto Mode
- Function Key for Quick Selecting
- High Intensity Flash for Caution & Status Indication
- Safety Interlock Function
- Zero Crossing Turn-on Operation
- Controllable Ramp-up Time

### Specifications

Environment		
Range	Temperature	Humidity
Warranty	15°C ~ 35°C	≤70% (No condensation)
Operation	0°C ~ 40°C	≤70% (No condensation)
Storage	-10°C ~ 70°C	≤85% (No condensation)
Installation Location	Indoors at an amplitude of up to 2000m.	
AC Withstanding Voltage	STW-9801/9802/9803	STW-9901/9902/9903/9904
Output Voltage Range	0.100kV~ 5.000kV	
Output Voltage Resolution	2V/step	
Output Voltage Accuracy	± (1% of setting +5V) with no load	
Maximum Rated Load (Table1)	500 VA (5kV/100mA)	
Maximum Rated Current	10mA(0.1kV≤V≤0.5kV) 40mA(0.5kV<V≤5kV)	10mA(0.1kV≤V≤0.5kV) 100mA(0.5kV<V≤5kV)
Output Voltage Waveform	Sine wave	
Frequency	50 Hz / 60 Hz	
Voltage Regulation	± 1% +5V [Maximum rated load → no load]	
Voltmeter Accuracy	± (1% of reading+ 5V)	
Current Measurement Range	0.001mA~40.0mA	0.001mA~100.0mA
Current Best Resolution	0.001mA(0.001mA~0.999mA) 0.01mA(0.010mA~0.999mA) 0.1mA(0.100~0.999mA)	0.001mA(0.001mA~1.100mA) 0.01mA(0.011mA~1.100mA) 0.1mA(0.111~1.100mA)
Current Measurement Accuracy	± (1.5% of rdg + 3 counts) HI SET<1.00mA ± (1.5% of rdg + 3 counts) HI SET≥1.00mA	± (1.5% of rdg + 3 counts) HI SET<1.11mA ± (1.5% of rdg + 3 counts) HI SET≥1.11mA
Window Comparator Method	Yes	
ARC DETECT	Yes	
Rise-time Control Function	Yes	
RAMP (Ramp Time)	0.1s~999.9s	
TIMER (Test Time)	OFF*, 0.5s~999.9s	
GND	ON/OFF	
* The timer can only be turned off under special MANU mode (MANU=***-000)		
DC Withstanding Voltage	STW-9802/9803	STW-9902/9803/9804
Output Voltage Range	0.100kV~ 6.000kV	
Output Voltage Resolution	2V	
Output Voltage Accuracy	± (1% of setting +5V) with no load	
Maximum Rated Load (Table1)	50W (5kV/10mA)	100W (5kV/20mA)
Maximum Rated Current	2mA (0.1kV≤V≤0.5kV) 10mA (0.5kV<V≤6kV)	2mA (0.1kV≤V≤0.5kV) 20mA (0.5kV<V≤6kV)
Voltmeter Accuracy	± (1% of reading+ 5V)	
Voltage Regulation	± 1% +5V [Maximum rated load → no load]	
Current Measurement Range	0.001mA~0.100mA	0.001mA~0.200mA
Current Best Resolution	0.001mA(0.001mA~0.999mA) 0.01mA(0.010mA~0.999mA) 0.1mA(0.100mA)	0.001mA(0.001mA~1.100mA) 0.01mA(0.011mA~1.100mA) 0.1mA(0.111mA~1.100mA)
Current Measurement Accuracy	± (1.5% of rdg + 3 counts) HI SET <1.00mA ± (1.5% of rdg + 3 counts) HI SET ≥1.00mA	± (1.5% of rdg + 3 counts) HI SET <1.11mA ± (1.5% of rdg + 3 counts) HI SET ≥1.11mA
Window Comparator Method	Yes	
ARC DETECT	Yes	
Rise-time Control Function	Yes	
RAMP (Ramp Time)	0.1s~999.9s	
TIMER (Test Time)	OFF*, 0.5s~999.9s	
GND	ON/OFF	
* The timer can only be turned off under special MANU mode (MANU=***-000)		

## STW-9900/9800 Series

500VA and 200VA AC Test Capacity



- True RMS Current Measurement
- High Resolution : 1μA for Measuring Current, 2V for Setting Voltage
- PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- Max. 100 Memory Block for Test Condition (Step) Setting. And Each Step can be Named Individually
- Remote Terminal on the Front Panel for "Start" and "Stop" Control by External
- Interface: RS-232C, USB Device, Signal I/O and GP-IB (Option: OPT.1)

Insulation Resistance Test	STW-9803/9903/9904		
Output Voltage	50V~1000V		
Output Voltage Resolution	50V		
Output Voltage Accuracy	(1% of setting+5V) with no load		
Resistance Measurement Range (STW-9803)	1MΩ~ 9500MΩ		
	Test Voltage	Measurement Range	Accuracy
	50V≤V≤450V	0.001GΩ~0.050GΩ 0.051GΩ~2.000GΩ	±(5% of reading +1 count) ±(10% of reading +1 count)
	500V≤V≤1000V	0.001GΩ~0.500GΩ 0.501GΩ~9.500GΩ	±(5% of reading +1 count) ±(10% of reading +1 count)
Resistance Measurement Range (STW-9903/ 9904)	1MΩ~ 50GΩ		
	Test Voltage	Measurement Range	Accuracy
	50V≤V≤450V	0.001GΩ~0.050GΩ 0.051GΩ~2.000GΩ	±(5% of reading +1 count) ±(10% of reading +1 count)
	500V≤V≤1000V	0.001GΩ~0.500GΩ 0.501GΩ~9.999GΩ 10.000GΩ~50.000GΩ	±(5% of reading +1 count) ±(10% of reading +1 count) ±(15% of reading +1 count)
Output Impedance	600kΩ		
Window Comparator Method	Yes		
Rise-time Control Function	Yes		
RAMP (Ramp Time)	0.1s~999.9s		
TIMER (Test Time)	1s~999.9s		
GND	OFF		
Ground Bond Test	STW-9904		
Output Current Range	03.00A~32.00A		
Output Current Accuracy	± (1% of reading +0.2A) when 3A ≤ I ≤ 8A ± (1% of reading +0.05A) when 8A < I ≤ 32A		
Output Current Resolution	0.01A		
Frequency	50Hz/60Hz selectable		
Ohmmeter Measurement Accuracy	± (1% of reading +2mΩ)		
Ohmmeter Measurement Range	10mΩ~650.0mΩ (depending on output current)		
Test Voltage	Max. 6V(AC)open - circuit		
Ohmmeter Measurement Resolution	0.1mΩ		
Windows Comparator Method	Yes		
TIMER (Test Time)	0.5s~999.9s		
GND	OFF		
Interface			
REMOTE (Remote terminal)	Yes		
SIGNAL IO	Yes		
RS-232C	Yes		
USB (Device)	Yes		
GP-IB	Yes (OPTION)		
General			
DISPLAY	240 x 64 dot matrix LED back light LCD		
MEMORY	AUTO/MANU mode 100 memory blocks total		
POWER SOURCE	AC100V/120V/220V/230V ±10% 50Hz/60Hz		
ACCESSORIES	Power cord x1, User Manual x1 (CD), GHT-114x1 (GTL-115x1 for STW-9904)		
DIMENSIONS & WEIGHT	STW-9801/9802/9803: Approx. 322(W) x 148(H) x 452(D)mm(Max) 24kg(Max) STW-9901/9902/9903: Approx. 322(W) x 148(H) x 482(D)mm(Max) 24kg(Max) STW-9904: Approx. 322(W) x 148(H) x 594(D) mm (Max.) 27kg(Max)		

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