

Electrical Safety Testers

STW-9901

AC 500VA AC Withstanding Voltage Tester

STW-9902

AC 500VA AC/DC Withstanding Voltage Tester

STW-9903

AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester

STW-9904

AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester

- 500VA 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-9901 / 9902 / 9903 / 9904		
Output Voltage Range	0.100kV~ 5.000kV	
Output Voltage Resolution	2V	
Output Voltage Accuracy	± (1% of setting +5V) with no load	
Maximum Rated Load(Table1)	500 VA (5kV/100mA)	
Maximum Rated Current	100mA 0.001mA ~ 10mA(0.1kV≤V≤0.5kV) 0.001mA ~ 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~100.0mA	
Current Best Resolution	1uA 0.001mA(0.001mA~1.100mA) 0.01mA(0.11mA~11.00mA) 0.1mA(0.11mA~100.0mA)	
Current Measurement Accuracy	± (1.5% of rdg + 30 counts) when HI SET<1.11mA ± (1.5% of rdg + 3 counts) when 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-9902 / 9903 / 9904		
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)	100W (5kV/20mA)	
Maximum Rated Current	20mA 0.001mA ~ 2mA (0.1kV≤V≤0.5kV) 0.001mA ~ 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~020.0mA	
Current Best Resolution	1uA 0.001mA(0.001mA~1.100mA) 0.01mA(0.11mA~11.00mA) 0.1mA(0.11mA~020.0mA)	
Current Measurement Accuracy	± (1.5% of rdg + 30 counts) when HI SET <1.11mA ± (1.5% of rdg + 3 counts) when 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 Series

500VA 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-9903 / 9904
Output Voltage	50V~1000V	
Output Voltage Resolution	50V	
Output Voltage Accuracy	(1% of setting+5V) with no load	
Resistance Measurement Range	1MΩ~ 50GΩ	
Test Voltage	Measurement Range	Accuracy
50V≤V≤450V	0.001GΩ~0.050GΩ	±(5% of reading +1 count)
	0.051GΩ~2.000GΩ	±(10% of reading +1 count)
500V≤V≤1000V	0.001GΩ~0.500GΩ	±(5% of reading +1 count)
	0.501GΩ~9.999GΩ	±(10% of reading +1 count)
	10.00GΩ~50.00GΩ	±(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 for STW-9901/9902/9903 GHT-114x1, GTL-115x1 for STW-9904	
DIMENSIONS & WEIGHT	STW-9904: Approx. 330(W) x 148(H) x 587(D) mm (Max.) 27kg(Max) STW-9901/9902/9903: Approx. 330(W) x 148(H) x 482(D)mm(Max) 24kg(Max)	