

Electrical Safety Testers

STW-9701

AC 500VA AC Withstanding Voltage Tester

As the STW-9701 is dedicated solely to AC withstanding tests, operation is simple and efficient. There are two voltage ranges, 2.5kV and 5kV with an upper current cutoff of 110mA AC (500VA output max).

The STW-9701 includes the basic current cutoff window detection, test timer, arc mode, pass hold, max mode and ground mode settings.

The STW-9701 can also store up to 100 different manual test conditions allowing the safety tester to accommodate any number of safety standards, including IEC, EN, UL, CSA, GB, JIS and others.

- ACW: 2.5/5.0kVAC
- 100 test conditions
- Zero-Start crossing
- Over temperature, voltage and current protection
- Pass, Fail, Test, High Voltage and Ready indicators

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 Test Voltage		
Applied Voltage	0.1~2.5kV/0.1~5kV	
Output Voltage	500VA (5kV,100mA)	
Transformer Rating	500VA	
Short-circuit current	200mA or more	
Waveform	Ac line voltage waveform	
Voltage Regulation	15%	
(With nominal line voltage)	(Against change from maximum rated load to no load.)	
Switching	With zero-turn-on (zero-start) switch	
Digital Voltmeter		
Full scale	2.5kV / 5kV fs	
Accuracy	1% of reading + 10V 2.5kV fs 1% of reading + 20V 5kV fs	
Digital Ammeter		
Accuracy	± (1.5% of rdg + 30 counts) when HI SET < 1.11mA ± (1.5% of rdg + 3 counts) when HI SET ≥ 1.11mA	
Current Measurement Range	0.001mA~100.0mA	
Current Best Resolution	1µA 0.001mA(0.001mA~1.100mA) 0.01mA(0.11mA~11.00mA) 0.1mA(0.11~100.0mA)	
Pass/Fail Judgment		
Type of judgment	Window comparator type	
Upper cutoff current setting range	0.001 mA to 110.0mAAC	
Lower cutoff current setting range	0.000 mA to 109.9mAAC	
Judgment accuracy	±(3% + 40µA) of upper cutoff current	
Current detection	The absolute value of current is integrated and compared with the preset cutoff current value	
Calibration	Calibrated for rms value of sine wave, with pure-resistive load	
Hi set valid judgment range	0.011mA to 1.100mAAC 0.111mA to 11.00mAAC 0.111mA to 110.0mAAC	
Lo set valid judgment range	0.010mA to 1.099mAAC 0.010mA to 10.99mAAC 0.010mA to 109.9mAAC	

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This set operates on AC 100V only



- Interlock (configurable)
- Remote control start/stop interface terminal
- USB and RS-232C interface for programming
- Signal I/O port for pass/fail/test monitoring and start/stop control/interlock

Test Time	
Setting range	OFF, 0.5s to 999s
Remote Control	
REMOTE connector	(5-pin DIN connector on the front panel)
SIGNAL I/O connector	(9-pin D-sub female connector on the rear panel)
Interlock	ok
USB Device	ok
RS-232C	ok
General	
DISPLAY	240 x 64 dot matrix LED back light LCD
MEMORY	100 memory blocks
POWER SOURCE	AC100V ±10% 50Hz/60Hz
POWER CONSUMPTION	Approx. 15VA (READY STATUS) Approx. 600VA (rated load)
ACCESSORIES	Power cord x1, User Manual x1 (CD), GHT-114 x1
DIMENSIONS & WEIGHT	Approx. 322(W) x 148(H) x 385(D) mm (Max.), Approx. 16kg(Max)

Pay attention to the following limitations on the AC output voltage delivery time:
The heat dissipation of the high voltage generator section of the tester is one-half of the normal wattage with respect to the rated output due to limitations in the size, weight, and cost of the tester. Due to this, be sure to operate the tester within the limits shown in the table below. If you operate the tester and exceed these limits, the thermal fuse in the tester may blow out.

Options

GHT-113	High Voltage Test Pistol
GHT-114	Clip High Voltage Probe
GHT-205	High Voltage Test Probe
GTL-115	U-type to Alligator Test Lead (For STW-9904)
GRA-417	Rack Mount Kit (EIA)
OPT.1	GP-IB Control Board (For STW-9900 Series)