# **Dielectric Withstand Tester** For Safety Agency Production Line Compliance Testing



### HYPOT II MODEL 4500D

Entry level 500VA Hipot tester with simple PLC control. It has the features and flexibility that makes it the perfect choice for all your manual 500VA testing needs.



### FEATURES AND BENEFITS

FEATURE BENEFIT	<b>Maximum output current of 100 milliamps AC</b> The 4500D offers enough output current to test capacitive loads in AC mode and allows compliance with standards requiring 500VA output.	FEATURE BENEFIT	
FEATURE BENEFIT	<b>Front panel LCD displays test parameters and results</b> A front panel LCD allows the operator to monitor the test. The display holds the results after a test item failure so that the operator		
	can easily review the test results. Indications of high fail and continuity failure are clearly displayed.	DEMERTI	
FEATURE	Monitoring of current down to 10 microamps AC	FEATURE	
BENEFIT	This allows the 4500D to be used even when test requirements only allow a very low level of acceptable leakage current.	BENEFIT	
FEATURE	Electronic ramp and dwell settings	FEATURE	
BENEFIT	Electronic Ramp provides a gradual and timed method to increase output voltage to the DUT, minimizing any damage from quickly	BENEFIT	

Electronic Ramp provides a gradual and timed method to increase output voltage to the DUT, minimizing any damage from quickly over-applying high voltage to sensitive DUTs while electronic dwell keeps test results consistent by ensuring that the test duration is the same for each product tested.

FEATURE Test setup memories

**BENEFIT** The operator can store and recall test setups, thus eliminating the need to re-enter setup information.

#### FEATURE Safety agency listing

**BENEFIT** The 4500D is CE and TUV listed which means it has passed the tough design and performance tests as called out in EN 61010 and IEC 1010.

#### EATURE PLC remote inputs and outputs

The standard 9 pin interfaces provide outputs for Pass, Fail, and Test in Process. Inputs include Test and Reset. This gives the user all the basic remotes required to configure the 4500D through simple PLC relay control.

#### EATURE Built-In remote interlock

A remote interlock provides a way to connect a safety enclosure or other safety device to protect the operator from exposure to high voltage.

#### **ATURE** Built-in continuity test mode

The 4500D meets ground continuity test requirements called out by UL and other safety agencies.

#### EATURE Low-current sense

This will monitor the minimum level of current flow, thus ensuring that the DUT is properly connected and that the hipot test is being performed.

#### **FEATURE** Adapter box for products terminated in a line cord

The standard US style receptacle box allows easy testing of hipot and continuity on line cord terminated products. As an additional benefit, termination boxes are available for testing products with line cords configured for other countries.

#### **FEATURE** Simple menu driven parameters

BENEFIT The o

BENEFIT

The easy-to-follow setup screens ensure that the operator correctly sets up all test parameters.



For more information visit our web site at: **www.asresearch.com** and **ORDER ON-LINE!** Or contact us toll-free at: **1-800-858-TEST (8378)** 

# **USER FRIENDLY FEATURES**

- No load setup of trip current and output voltage.
- Automatic storage of test program.
- Tamper proof front panel controls.
- Line and load regulation.
- Software calibration control.

- User selectable output voltage frequencies of 50 or 60 hertz.
- Output voltage fine adjustment.
- User selectable input voltage.
- Flashing high voltage indicator.

# **MODEL 4500D Specifications**

	INPUT		GENERAL
DIELECTRIC WITHSTAND TEST MODE	115/230V selectable, $\pm$ 10% variation, 50/60 Hz $\pm$ 5%	REMOTE CONTROL AND SIGNAL OUPUT	The following input and output signals are provided through two 9 pin D type connectors; 1. Inputs: Test, Reset, Interlock
FUSE OUTPUT	115 VAC, 230VAC – 15A fast acting 250VAC           Rating:         AC 0 – 5000V, 10V / step, 100mA		2. Outputs: Pass, Fail, Test in Process
UUIPUI	Rating: AC 0 – 5000V, $10V / \text{step}$ , $100\text{mA}$ Regulation: $\pm (1 \% \text{ of output } + 5V)$	PROGRAM MEMORY	5 Sets
VOLTAGE SETTING	$ext{Production} = (1\% \text{ of output } + 5\%)$ 0V - Max  output rating,  10V / step	SECURITY	Lockout capability to avoid unauthorized
VOLIAGE SETTING	Accuracy: $\pm (2\% \text{ of Setting} + 5V)$ (relative to	SECONITI	access to test set-up program.
	Accuracy: $\pm (2\% \text{ of Setting} + 5V)$ (relative to displayed output) Can be adjusted during operation via UP and DOWN arrow keys.	LINE CORD	Detachable 7ft. (2.13m) power cable terminated in a three prong grounding plug.
OUTPUT FREQUENCY	50/60 Hz selectable	TERMINATIONS	128 x 64 dot resolution with front panel contrast setting.
WAVE FORM DWELL TIME SETTING	Sinewave, Crest Factor = 1.3 - 1.5, <2% THD 0 and 0.2 – 999.9 seconds, 0.1 second / step "0" for constant	ALARM VOLUME SETTING	Front panel adjustable volume setting with 10 set points.
RAMP TIME SETTING	0 and 0.2 – 999.9 seconds, 0.1 second / step 0 ramp setting = 0.1 seconds fixed ramp	LINE CORD	Detachable 6 ft. (1.80m) power cable terminated in a three prong grounding plug.
FAILURE SETTING METERING	High limit: $0.00 - 99.99 \text{ mA}$ , $0.01 \text{ mA / step}$ Low limit: $0.00 - 99.99 \text{ mA}$ , $0.01 \text{ mA / step}$ (0=OFF)         Accuracy: $\pm (2 \% \text{ of setting} + 0.02 \text{ mA})$ Voltmeter (4 digits)	TERMINATIONS	5ft. (1.52m) high voltage and return leads (2) with clips and a standard U.S. style (NEMA 5-15) remote receptacle box for testing items terminated with a line cord. International receptacles also available.
	Range: AC $0.00 - 5.00$ KV Resolution: 0.01 KV Accuracy: $\pm (2 \% \text{ of reading} + 10 \text{ V})$ Ammeter (4 digits) Range: AC $0.00 - 99.99$ mA	MECHANICAL	Tilt-up front feet Dimensions (W x H x D) 17 x 5.8 x 12 in. (432 x 147 x 305mm) Weight: 56.70 Lbs. (25.92 kgs)
	Resolution: 0.01 mA Accuracy: $\pm (2 \% \text{ of reading} + 0.02 \text{ mA})$	ENVIRONMENTAL	Operating Temperatures: 32°- 104°F (0° - 40°C) Relative Humidity : 0 to 80%
TIMER DISPLAY	Range: $0.0 - 999.9$ secondsResolution: $0.1$ secondsAccuracy: $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$	CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made
GROUND CONTINUITY CHECK	Current: DC 0.1 A $\pm$ 0.01A, fixed Max. ground resistance: 1 $\Omega \pm 0.1\Omega$ , fixed		through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.



For more information visit our web site at: www.asresearch.com and ORDER ON-LINE!

Or contact us toll-free at: 1-800-858-TEST (8378)

WWW3Vatsetfonics.com045-4546 U.S.A. • Tel: 1-847-367-4077 • Fax: 1-847-367-4080 • E-mail: info@asresearch.com