

Model 4500D Functional Specifications

Unless otherwise stated, accuracy's are relative to a laboratory standard measurement.

DIELECTRIC WITHSTAND TEST MODE	
Descriptions	Specifications
INPUT VOLTAGE	115 / 230V selectable, $\pm 10\%$ variation 50/60 Hz $\pm 5\%$
FUSE	115 VAC, 230VAC – 15A fast acting 250VAC
OUTPUT	Rating AC 0 – 5000V, 10V / step, 100mA Regulation : $\pm (1\% \text{ of output} + 5V)$
VOLTAGE SETTING	0V – Max output rating, 10 volts/step Accuracy: $\pm (2\% \text{ of Setting} + 5V)$ (relative to displayed output) Can be adjusted during operation via UP and DOWN arrow keys.
OUTPUT FREQUENCY	50 / 60 Hz selectable
WAVE FORM	Sinewave, $1.3 < \text{Crest Factor} < 1.5$
DWELL TIME SETTING	0 and 0.2 – 999.9 seconds, 0.1 second / step “0” for continuous running
RAMP TIME SETTING	0 and 0.2 – 999.9 seconds, 0.1 second / step 0 ramp setting = 0.1 seconds fixed ramp
FAILURE SETTINGS	AC mode High limit : 0.00 – 99.99 mA, 0.01 mA / step Low limit : 0.00 – 99.99 mA, 0.01 mA / step (0= OFF) Accuracy : $\pm (2\% \text{ of setting} + 0.02 \text{ mA})$
METERING	Voltmeter (4 digits) 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 Resolution : 0.01 mA Accuracy : $\pm (2\% \text{ of reading} + 0.02 \text{ mA})$
TIMER DISPLAY	Range : 0.0 – 999.9 seconds Resolution : 0.1 seconds Accuracy : $\pm (0.1\% \text{ of reading} + 0.05 \text{ sec})$

GROUND CONTINUITY CHECK	Current : DC 0.1 A \pm 0.01A, fixed Max. ground resistance : 1 Ω \pm 0.1 Ω , fixed
Short Circuit Output Current	> 200mA
GENERAL SPECIFICATIONS	
Remote Control and Signal Output	The following input and output signals are provided through two 9 pin D type connectors; <ol style="list-style-type: none"> 1. Remote control: test, reset, interlock 2. Outputs: pass, fail, test in process
Program Memory	5 sets
Security	Lockout capability to avoid unauthorized access to test set-up program.
Line Cord	Detachable 7ft. (2.13m) power cable terminated in a three prong grounding plug.
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.
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)
Environmental	Operating Temperatures: 32°-104°F (0°-40°C) Relative Humidity : 0 to 80%
Calibration	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a restricted access calibration mode. Calibration information stored in non-volatile memory.