



Capacitor Discharge Tester

CDT-240

PN:00-CDT-240-V3

❖ IEC Testing of residual voltage after plug disconnects.



Designed with presets to implement the plug discharge test described in IEC 61010, 60065 and 60335. Meets or exceeds accuracy specifications of CTL DSH 251e.

The CDT-240 disconnects the line at the voltage peak and analyzes results to the requirements of various Standards, allowing quick results. Presets for EN 61010, EN 60065, EN 60950, EN 60601-1 and EN60335. Recommendations for Pluggable Type B equipment. CE approved.

*Actual products may vary depending on options and configuration.

➤ Features

- Fast accurate results.
- Disconnects input test voltage at positive or negative peak.
- Scope output for viewing decay waveform.
- Microcontroller Technologies.
- One button test, easy to setup.
- Polarity indicator on front panel.
- LCD Display indicates test result.
- Maximum Rated Test Current 8A; 15A optional.
- CBX Built in for functionality test.
- External interlock disables defeats test when circuit is open.
- Designed for product development, production, and laboratory use.
- Presets for various standards for easy testing.
- Ergonomically designed for safety, speed, and efficiency.
- Rugged construction that can withstand a 6" drop with no damage.
- Leads, manual and calibration certificate included.
- ISO17025 Calibration available.
- One year calibration cycle.
- One year warranty.



➤ Specifications

TESTING CIRCUITRY

Minimum/Maximum Test Voltage:	90Vrms min/ 270Vrms max.
Maximum Test Current:	8A. 15A for testers with 15A option.
Fuse:	10A, 250V, time delay, 1-¼" x ¼". 20A, 250V, time delay, 1-¼" x ¼" for testers with 15A option.
Probe Impedance:	> 100MΩ, < 25pF
AC Peak Detection Accuracy:	EUT disconnect within 5% of supply voltage peak.
Test Time Range:	0.50 – 10.0 Seconds.
Voltage Setting Range/Meas. Range:	±30 to 388V.
Voltage Setting Resolution:	1V.
Test Time Accuracy:	±1% for times ≥ 1 second, +/- 10ms for < 1 second.
Voltage Meter Accuracy:	±1.5% of instrument measuring range; ±2% ±0.8V up to 381Vpeak. (See Appendix E for accuracy information with respect to voltage readings).
Frequency:	50-60Hz.

ELECTRICAL

Rated Input Voltage:	100-240V.
Frequency:	50/60Hz.
Fuse:	2A, 250V, time delay, 5x20mm.

SAFETY

Safety Interlock:	2-pin terminal block on rear panel; shorted for operation.
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OUTPUTS

BNC 100:1:	Referenced to ground, 100:1 of measured voltage. (L-N, L-G, N-G) +/-2%.
L, N, G:	Socket 4mm 1000V CAT III 32A.
Output receptacle options:	NEMA 15A/125V, UK 12A/250V, SCHUCKO 16A/250V, CHINESE 10A/250V.

➤ Environmental

Operating Temperature:	15-40°C.
Relative Humidity Range:	0-90% non-condensing.

➤ General

Dimensions:	9¼" Wide x 4¾" High x 10" Deep.
Weight:	5.8lbs approx.
Product Package:	<ul style="list-style-type: none"> • CDT-240 V2 Tester. • CDT-240 V2 User Manual. • CDT Test Lead Set. • Power Cords. • NIST traceable calibration certificate to ANSI Z540. • Calibration Data Copy.



➤ Options

00-CDT-15A:	15A maximum rated current.
00-HAN-L:	Carrying handle mounted on left side.
00-HAN-R:	Carrying handle mounted on right side.
00-HAN-T:	Carrying handle mounted on top side.
80-100-001-E	Explorer Case with foam for shipping/transport.
80-100-001-P	Pelican Case with foam for shipping/transport.

➤ Images



Front



Rear



Side



NEMA



UK



SCHUKO



CHINESE



Test Lead Set

