

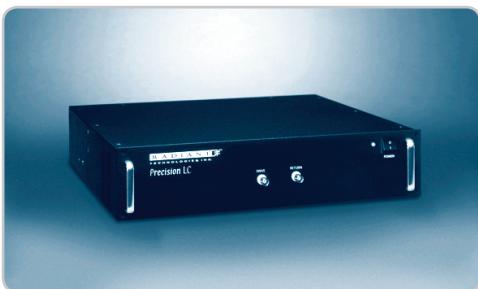


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Precision LC

World's leader in **Ferroelectric Technology**

The Precision LC is Radiant's answer to a growing need for affordable characterization equipment. The Precision LC is an ideal general purpose tester for the University research laboratory



Features of this system include:

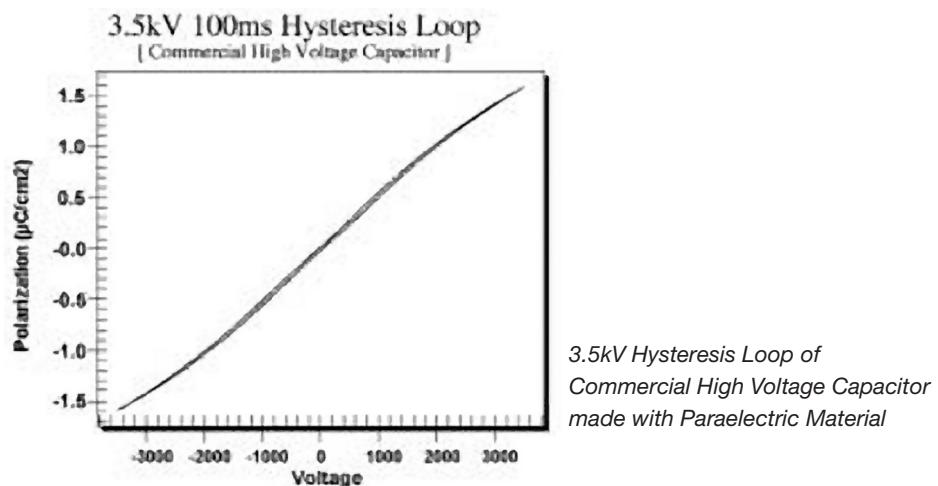
- » +/- 10V with 100V and 200V options
- » Min Pulse Width 50 μ s
- » Min Rise Time @ 5V 40 μ s
- » 5 KHz Internal Fatigue Frequency
- » External Fatigue Connection
- » Min Hysteresis Loop 10s
- » 2.0 kHz Max Hysteresis Frequency
- » Min Resolution Electrometer 305 μ V
- » Can Interface with Radiant's High Voltage Interface for Testing up to ± 10 kV (with accessories)
- » Can Measure From 4 μ 2 up to 58cm 2 from 0.5V to 10,000V Leakage to <1pA

Hardware Features:

- » Peak Output current 50mA
- » Virtual Ground Measurement Circuitry
- » External Sensor for AFM, Piezo and Pyroelectric

Measurements

- » USB Control under Windows™
- » Vision Software Operating System Includes: Hysteresis, Leakage, Charge, Retain, Resist, Fatigue, C(V), PUND, Imprint, and Leakage Current
- » Custom Test Profiles
- » Networking features allow researchers to share data from anywhere in the world
- » Continuously variable pulse widths from 50 μ s to 1s





Hardware Specifications

HARDWARE SPECIFICATIONS	High Voltage Test	Limit	External Sensor Channels	Independent Voltage Sources									
	10 V/	10 kV	2	1									
Optional	100 V/200 V												
MEASUREMENT SPECIFICATIONS	DRIVE DAC	Output Voltage Resolution	Min Pulse Width	Min Rise Time @ 5V	Maximum Internal Fatigue Frequency	External Fatigue	Peak Output Current	Max Hysteresis Frequency	Min Hysteresis Period				
	12 bits	4.88 μ V	50 μ s	40 μ s	5 kHz	Yes	50 mA	2 kHz	10 s				
System Ranges													
SYSTEM HARDWARE	RETURN ADC	Integrator Voltage Range	Sense Capacitors	Maximum Amplification	Minimum Amplification								
	16 bits	\pm 10 V	100 pF, 1.1 nF, 5.8 nF	1	0.001								
MINIMUM RESOLUTION	Integrator Voltage Divisions	Minimum Voltage Resolution	Minimum Sense Cap Charge	Correction for Amplification									
	32768	305 μ V	30.5 fC	30.5 fC									
MAXIMUM MEASURABLE CHARGE	Maximum Voltage Resolution	Maximum Sense Cap Charge	Correction for Amplification	Range with Precision 10kV HVI									
	10 V	58 nC	58 μ C	5.8 mC									

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Optional Features:

- » Piezoelectric Measurements
- » Pyroelectric Measurements
- » High Voltage testing up to 10kV

Dimensions:

- » Width-17" x Depth-13" x Height-4"
- » Weight 20lbs