

World's leader in **Ferroelectric Technology**

RT66B

Radiant Technologies, Inc.

Radiant's new RT66B test system replaces the famous RT66A. This test system is perfect for researcher looking for a flexible unit at an affordable price. The RT66B is faster than the RT66A, runs under Windows™, and is compatible with the Vision data management software from Radiant.



Output Range ±10V

- Output range can be expanded to ±200V
- 12-bit Arbitrary Waveform Generator output
- 200Hz -> 1/8th Hz Hysteresis Frequency
- 100 points in 5ms
- 500 points in 8 seconds
- Pulse Widths down to 500µs and up to 100ms
- Two output ramp rates to improve accuracy

Polarization Measurement

- 14-bit analog to digital converters
- 50µs capture rate
- Polarization, output voltage, and SENSOR captured simultaneously
- Minimum charge sensitivity -> 122fC
- Minimum PZT capacitor area -> 12µ²
- Maximum charge measurement -> 4.8µC (480µC w/HVI)
- Maximum PZT capacitor area -> 4.8mm² (4.80cm² w/HVI)
- Maximum hysteresis loop frequency -> 200Hz
- Minimum hysteresis loop frequency -> 1/8th Hz

1 COMM channels for controlling high voltage amplifiers

- 1 I2C COMM channel

1 external ±10V SENSOR input

Requires a desktop or laptop computer with USB1.0 Port or better

Vision data management system operating under Windows 2000™ or XP™

Optional Features:

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

Hardware Specifications

HARDWARE SPECIFICATIONS	Voltage Test	High Voltage Limit	External Sensor Channels	Independent Voltage Sources					
	±10 V/±200 V	±10 kV	1	1					
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 µV	500 µs	40 µs	5 kHz	Yes	50 mA	200 Hz	8 s
System Ranges:									
SYSTEM HARDWARE	RETURN ADC	Integrator Voltage Range	Sense Capacitors	Maximum Amplification	Minimum Amplification				
	14 bits	±10 V	100 pF, 4.8 nF	1	0.01				
MINIMUM RESOLUTION	Integrator Voltage Divisions	Minimum Voltage Resolution	Minimum Sense Cap Charge	Correction for Amplification					
	8192	1.22mV	48nC	4.8µC					
MAXIMUM MEASURABLE CHARGE	Maximum Voltage Resolution	Maximum Sense Cap Charge	Correction for Amplification	Range with Precision					
	±10 V	48 µC	4.8 µC	480µC					

Dimensions:

Width-4.75" x Depth-7.75" x Height-1.75"

Weight 20lbs

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