



## 1. General Specifications

Spartna SPR-221 is Insulation Multimeter combines a digital insulation tester with a full - featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

## 2. Features

1. Insulation test voltages 125V, 250V, 500V, 1000V.
2. Insulation test: 0.001M $\Omega$  to 4000M $\Omega$ .
3. AC, AC+DC, DC measurements of voltage and current.
4. 1kHz bandwidth for AC voltage and AC current measurements.
5. Auto discharge of capacitive voltage.
6. Insulation test smoothing reading.
7. 40,000 Counts Large LCD.
8. Min/Max function.
9. K-type thermocouple.
10. Rugged, utility hard case.
11. Auto power off to save battery power.
12. Large LCD display with backlight.
13. CAT III 1000V, CAT IV 600V measurement category.
14. Low battery indication.
15. IP67 Waterproof.
16. Accessories: Test leads, 6x1.5V "AAA" batteries, Type K temp. probe and carrying case.





# Insulation Tester with True RMS Multimeter

SPR-221

## 3. Technical Specifications

	Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
Insulation Resistance	125V (0%~10%)	0.125~4.000MΩ	0.001MΩ	±(2%+10)	1mA at load 125kΩ	≤1mA
		4.001~40.00MΩ	0.01MΩ	±(2%+10)		
		40.01~400.0MΩ	0.1MΩ	±(4%+5)		
		400.1~4000MΩ	1MΩ	±(5%+5)		
	250V (0%~10%)	0.250~4.000MΩ	0.001MΩ	±(2%+10)	1mA at load 250kΩ	≤1mA
		4.001~40.00MΩ	0.01MΩ	±(2%+10)		
		40.01~400.0MΩ	0.1MΩ	±(3%+5)		
		400.1~4000MΩ	1MΩ	±(4%+5)		
	500V (0%~10%)	0.500~4.000MΩ	0.001MΩ	±(2%+10)	1mA at load 500kΩ	≤1mA
		4.001~40.00MΩ	0.01MΩ	±(2%+10)		
		40.01~400.0MΩ	0.1MΩ	±(2%+5)		
		400.1~4000MΩ	1MΩ	±(4%+5)		
1000V (0%~10%)	1.000~4.000MΩ	0.001MΩ	±(3%+10)	1mA at load 1MΩ	≤1mA	
	4.001~40.00MΩ	0.01MΩ	±(2%+10)			
	40.01~400.0MΩ	0.1MΩ	±(2%+5)			
	400.1~4000MΩ	1MΩ	±(4%+5)			

DC Voltage  
 Max Range: 1000V  
 Basic Accuracy: ±(0.06% reading + 4 digits)  
 Resolution: 0.1V

AC Voltage  
 Max Range: 1000V  
 Basic Accuracy: ±(1.0% reading + 30 digits)  
 Resolution: 0.1V

DC Current  
 Max Range: 10A  
 Basic Accuracy: ±(1.0% reading + 3 digits)  
 Resolution: 0.001A

AC Current  
 Max Range: 10A  
 Basic Accuracy: ±(1.0% reading + 30 digits)  
 Resolution: 0.001A

Resistance  
 Max Range: 40MΩ  
 Basic Accuracy: ±(0.3% reading + 4 digits)  
 Resolution: 0.0001MΩ

Capacitance  
 Max Range: 40mF  
 Basic Accuracy: ±(3.5% reading + 10 digits)  
 Resolution: 0.001mF

Frequency  
 Max Range: 40MHz  
 Basic Accuracy: ±(0.1% reading + 1 digits)  
 Resolution: 0.01MHz

Temperature  
 Max Range: -50 to 1200°C (-58 to 2192°F)  
 Basic Accuracy: ±(1.0% reading + 2.5°C/4.5°F)  
 Resolution: 0.1°C (0.1°F)

Duty Cycle  
 Max Range: 0.1 to 99.90%  
 Basic Accuracy: ±(1.2% reading + 2 digits)  
 Resolution: 0.01%

Power  
 6 x 1.5V "AAA" battery

Dimensions  
 220mm x 96.5mm x 60.5mm

Weight  
 631g

