

1. Specifications(cont.)

a. DCV			
Range	Resolution	Accuracy	Impedance
400mV	0.1mV	±0.3% of reading,	10MΩ
4V 0.001V	±2 digits		
40V	0.01V		
400V	0.1V		
1000V	1V		

b1. ACV (45Hz to 450Hz)			
Range	Resolution	Accuracy	Impedance
4V	0.001V	±0.75% of reading, ±5 digits	10MΩ
40V	0.01V		
400V	0.1V		
1000V	1V		

b2. ACV (450Hz to 5kHz)			
Range	Resolution	Accuracy	Impedance
4V	0.001V	unspecified	10MΩ
40V	0.01V		
400V	0.1V		
1000V	1V		

b3. ACV (5kHz to 20kHz)			
Range	Resolution	Accuracy	Impedance
4V	0.001V	unspecified	10MΩ
40V	0.01V		
400V	0.1V		
1000V	1V		

c. DCA			
Range	Resolution	Accuracy	Overload Protection
40mA	0.01mA	±0.5% of reading, ±5 digits	Fuse*(fast blow) F600V, .5A, 31CM
400mA	0.1mA		
4A	0.001A	±0.75% of reading, ±5 digits	Fuse*(fast blow) F600V, 10A, 31CM
10A	0.01A		

d. ACA			
Range	Resolution	Accuracy	Overload Protection
40mA	0.01mA	±0.75% of reading, ±5 digits	Fuse*(fast blow) F600V, .5A, 31CM
400mA	0.1mA		
4A	0.001A	±1.5% of reading, ±5 digits	Fuse*(fast blow) F600V, 10A, 31CM
10A	0.01A		

e. OHM (Resistance.Ω)			
Range	Resolution	Accuracy	Overload Protection
400Ω	0.1Ω	±0.5% of reading, ±5 digits	600V DC or AC Peak
4kΩ	0.001kΩ		
40kΩ	0.01kΩ		
400kΩ	0.1kΩ		
4MΩ	0.001MΩ		
40MΩ	0.01MΩ	±1% of reading, ±10 digits	

f. Diode Test		
Test Voltage	Max Test Current	Over Load Protection
3V	Approx. 2.5mA	600 V DC or Peak AC

g. Continuity Buzzer		
Test Voltage	Threshold	Over Load Protection
3V	100 digits	600 V DC or Peak AC

**Warning:** Use only correct size, voltage and current rated fuses.  
Test Leads: Use only correct type and overvoltage category rating.

h. Capacitance			
Range	Resolution	Accuracy	Over Load Protection
10μF	0.01μF	±2% of reading, ±5 digits	600V DC or Peak AC
100μF	0.1μF		
1000μF	1μF		
10,000μF	1μF		

i. Frequency			
Range	Resolution	Accuracy	Over Load Protection
200.00Hz	0.01Hz	±0.05% of reading, ±2 digits	600V DC or Peak AC
2,000.0kHz	0.0001kHz		
20,000kHz	0.001kHz		
200.00kHz	0.01kHz		

j. Temperature		
Range	Resolution	Accuracy
-40° to 2,498°F	1°F	±3°F +1 digit (-4° to 572°F) of reading rest of range
	±3%	
-40° to 1,370°C	1°C	±1.5°C +1 digit (-20 to 300°C) of reading rest of range
	±3%	

k. IG			
Function	Range	Resolution	Accuracy
RPM	60 to 12,000	1 RPM	±2 RPM
Duty Cycle	0.0 to 99.9%	0.1%	±2% per kHz, +0.1% (pulse width >0.5mS)
Dwell	0.0 to 356.4° (30 to 19999 RPM)	0.1°	pulse width > 0.5mS
Pulse Width	0.2 to 199.9mS (30 to 19999 RPM)	0.1mS	±2% per kHz, ±0.1% ±1 digit (pulse width>0.5mS)
Frequency	0.1 to 4000Hz (30 to 19999 RPM)	0.1Hz	±0.05% of reading, ±2 digits

l. IP			
Function	Range	Resolution	Accuracy
RPM	60 to 12,000RPM	1 RPM	±2 RPM
Frequency	199.9Hz	0.1Hz	±0.05% of reading, ±2 digits

General Specifications	
Max. Volt. between any Input and Ground	1000V
Fuse Protection	mA:0.5Amp/600VAC; A: 10Amp/600VAC
Display Type, Digital:	4,000 Count, 4 times per second update
Analog:	2x41 segments, 20 times per sec. update
Operating Temp.	-0° to 45°C (32° to 113°F)
Storage Temp.	-40° to 60°C (-40° to 140°F)
Relative Humidity	0% to 80%: (0° - 35°C/32° - 95°F) 0% to 70%: (35° - 55°C/95° - 131°F)
Temp. Coefficient	0.1 x (Specified Accuracy) per °C for temperature <18°C to >28°C
Altitude operating	6,562ft (2,000meter)
Non-operating	40,000ft (12,000meter)
Power Supply	9 Volt Alkaline Battery
Battery Life	100 hrs. Alkaline
Size (H x L x W)	33mm x 86mm x 187mm (1.3in x 3.4in x 7.4in)
Weight	660g (23.3oz)