

Section Two SPECIFICATIONS AND FEATURES

General Specifications:

- Display : 0.5" digital height, 3 1/2 digit with "-" and "DC" "AC" "K" "μ" "m" "V" "M" "A" and decimal annunciators.
- Measurement : DCV, ACV, Resistance, DCA, ACA, capacitance, Diode Check, Audible Continuity Check.
- Sampling Time : 0.4 second.
- Polarity : "-" will appear automatically in front of readout if input is negative.
- Overrange : Indication on display shows "1" or "-1" when input is over the range.
- Input Impedance : 10MΩ at all ranges of AC and DC voltage measurement.

Measurement Range and Accuracy

This instrument requires 30 minutes warm-up to achieve rated accuracy, and all the accuracies are guaranteed at 23°C ± 5°C, less than 75% RH.

1. DC Voltage

Range	Accuracy	Resolution	Input Impedance	Overload Protection
200mV	± 0.5% of reading + 1 digit	100 μV	10 MΩ	DC 500V AC 350V rms
2 V		1mV		
20 V		10mV		DC 1000V AC 1000V rms
200 V		100mV		
1000 V		1 V		

2. AC Voltage (40Hz–500Hz)

Range	Accuracy	Resolution	Input Impedance	Overload Protection
200mV	± 1% of reading + 4 digit	100 μV	10 MΩ	DC 500V AC 350V rms
2 V		1mV		
20 V		10mV		DC 1000V AC 1000V rms
200 V		100mV		
1000 V		1 V		

3. Resistance

Range	Accuracy	Resolution	Full Scale Voltage	Open Circuit Voltage	Max Test Current	Overload Protection
200 Ω	± 0.75% of reading + 1 digit	0.1 Ω	< 0.30V	< 0.6V	2.5mA	DC 300V AC 250V rms
2K Ω		1 Ω	< 0.25V		300 μA	
20K Ω		10 Ω	< 0.25V		60 μA	
200K Ω		100 Ω	< 0.25V		0.6 μA	
2M Ω		1K Ω	< 0.25V		0.6 μA	
20M Ω	± 1.5% of reading + 5 digit	10K Ω	< 0.40V		60 nA	

4. DC Current

Range	Accuracy	Resolution	Volt Drop at Full Scale	Overload Protection
200 μ A	$\pm 0.5\%$ of reading + 1 digit	0.1 μ A	250mV	2A Fuse
2mA		1 μ A		
20mA		10 μ A		
200mA		0.1mA		
2 A	$\pm 1.0\%$ of reading + 3 digit	1mA	700mV	—
20 A		10mA	700mV	

5. AC Current (40Hz–500Hz)

Range	Accuracy	Resolution	Volt Drop at Full Scale	Overload Protection
200 μ A	$\pm 1\%$ of reading + 4 digit	0.1 μ A	250mV rms	2A Fuse
2mA		1 μ A		
20mA		10 μ A		
200mA		0.1mA		
2 A	$\pm 1.5\%$ of reading + 2 digit	1mA	700mV rms	—
20 A		10mA	700mV rms	

6. Capacitance

Range	Test Condition	Accuracy (% of reading + digits)
2 nF	300Hz \pm 5%	\pm (2% rdg + 4 digit)
20 nF		
200 nF		
2 μ F		
20 μ F		

7. Diode Check

Range	Function	Description	Open Voltage	Max Test Current	Protection
	Diode Check	Display read approx. forward voltage of diode.	Max 3.2V	2.5 mA	DC 300V AC 250V rms

8. Audible Continuity Check

Range	Function	Description	Open Voltage	Max Test Current	Protection
	Audible Continuity Check	Built-in buzzer sounds if conductance is less than 30 ohm	Max 3.2V	2.5 mA	DC 300V AC 250V rms

Operating

Temperature : 0°C to 50°C 0°C to 35°C, 0–80%RH
35°C to 50°C, 0–70%RH

Storage

Temperature : -20°C to 70°C

Power

Requirement : AC 110V, 220V, 240V ± 10%, 50/60Hz

Dimensions

Weight : 245(W) x 95(H) x 280(D) mm

Accessories : Test Leads (red & black) 1 pair
Operation Manual 1 piece