

Table 1-1. Specifications

Maximum Voltage Between any Terminal and Earth Ground:	1000V dc, 750V ac rms(sine)
Fuse Protection:	40 mA: 1A 600V FAST Fuse 10A: 15A 600V FAST Fuse
Display:	Digital: 4000 counts, update rate 4/sec Analog: 63 segments, updates 40/sec Frequency: 9,999 counts Capacitance: 9,999 counts
Operating Temperature:	0°C to 55°C
Storage Temperature:	-40°C to 60°C
Temperature Coefficient:	0.1 x (specified accuracy)/°C (<18°C or >28°C)
EMC:	In an RF field of 1 V/m on all ranges and functions: Total Accuracy = Specified Accuracy + 0.5% of range Performance above 1 V/m is not specified
Relative Humidity:	0% to 90% (0°C to 35°C) 0% to 70% (35°C to 55°C)
Battery Type:	9V, NEDA 1604 or 6F22 or 006P
Battery Life:	700 hrs typical with alkaline 500 hrs typical with carbon zinc
Continuity Beeper:	4096 Hz
Shock, Vibration:	Per MIL-T-28800 for a Style B, Class 2 Instrument
Size (HxWxL):	1.12 in x 2.95 in x 6.55 in (2.8 cm x 7.5 cm x 16.6 cm)
Weight:	12 oz (340g)
Safety:	Designed to Protection Class II per IEC 348, ANSI/ISA-S82, UL1244, and CSA C22.2 No.231

Table 1-1. Specifications (cont)

FUNCTION	RANGE	RESOLUTION	ACCURACY	BURDEN VOLTAGE (TYPICAL)
VAC (45 Hz to 1 kHz)	400.0 mV 4.000V 40.00V 400.0V 750V	0.1 mV 0.001V 0.01V 0.1V 1V	$\pm(1.9\%+4)$ $\pm(1.9\%+2)$ $\pm(1.0\%+2)$ $\pm(1.0\%+2)$ $\pm(1.0\%+2)$ ± 1.5 dB typical	Not Applicable
To 20 kHz				
VDC	4.000V 40.00V 400.0V 1000V	0.001V 0.01V 0.1V 1V	$\pm(0.3\%+1)$ $\pm(0.3\%+1)$ $\pm(0.3\%+1)$ $\pm(0.3\%+1)$	Not Applicable
mVDC	40.00 mV 400.0 mV	0.01 mV 0.1 mV	$\pm(0.3\%+5)$ $\pm(0.3\%+1)$	Not Applicable
Ω	400.0 Ω 4.000 k Ω 40.00 k Ω 400.0 k Ω 4.000 M Ω 40.00 M Ω	0.1 Ω 0.001 k Ω 0.01 k Ω 0.1 k Ω 0.001 M Ω 0.01 M Ω	$\pm(0.4\%+2)$ $\pm(0.4\%+1)$ $\pm(0.4\%+1)$ $\pm(0.4\%+1)$ $\pm(0.4\%+1)$ $\pm(1\%+3)$	Not Applicable
Capacitance	99.99 nF 999.9 nF 9.999 μ F 99.99 μ F 999.9 μ F 9999 μ F	0.01 nF 0.1 nF 0.001 μ F 0.01 μ F 0.1 μ F 1 μ F	$\pm(1.9\%+2)^1$ $\pm(1.9\%+2)^1$ $\pm(1.9\%+2)^1$ $\pm(1.9\%+2)^1$ $\pm(1.9\%+2)^1$ $\pm 10\%$ typical	Not Applicable
)))	400 Ω	0.1 Ω	5% typical	Not Applicable
40 Ω (Lo-Ohms)	40 Ω 400 Ω 8 k Ω	0.01 Ω 0.1 Ω 1 Ω	5% typical 5% typical 10% typical	Not Applicable
Diode Test	2.450V	0.001V	$\pm 2\%$ typical	Not Applicable
AAC (45 Hz to 1 kHz)	4.000 mA 40.00 mA 4A 10.00 A ²	0.001 mA 0.01 mA 0.001A 0.01A	$\pm(1.5\%+4)$ $\pm(1.5\%+2)$ $\pm(1.5\%+4)$ $\pm(1.5\%+2)$	11 mV/mA 11 mV/mA 0.03 V/A 0.03 V/A

Table 1-1. Specifications (cont)

FUNCTION	RANGE	RESOLUTION	ACCURACY	BURDEN VOLTAGE (Typical)
ADC	4.000 mA	0.001 mA	±(0.5%+5)	11 mV/mA
	40.00 mA	0.01 mA	±(0.5%+2)	11 mV/mA
	4A	0.001A	±(0.5%+5)	0.03 V/A
	10.00 A²	0.01A	±(0.5%+2)	0.03 V/A
Frequency³ (1 Hz to 20 kHz)	99.99	0.01 Hz	±(0.01%+1)	Not Applicable
	999.9	0.1 Hz	±(0.01%+1)	
	9.999 kHz	0.001 kHz	±(0.01%+1)	
	20.00 kHz	0.01 kHz	±(0.01%+1)	
	20.00-99.99	9 kHz ±0.01 kHz	Usable	
	>99.99 kHz	0.1 kHz	Usable	

FREQUENCY COUNTER SENSITIVITY AND TRIGGER LEVEL		
Input Range⁴	Minimum Sensitivity (RMS Sine Wave)	
	500 Hz to 20 kHz	1.0 Hz to 500 Hz⁵
400 mV ac	150 mV	500 mV
4V ac	0.3V	0.7V
40V ac	3V	7V
400V ac	30V	70V
750V ac	300V	700V

Table 1-1. Specifications (cont)

FUNCTION	OVERLOAD PROTECTION ⁺	INPUT IMPEDANCE (NOMINAL)	COMMON MODE REJECTION RATIO (1 K Ω UNBALANCE)		NORMAL MODE REJECTION
VDC	1000V dc 750V ac rms (sine)	>10 M Ω , <100 pF	>120 dB at dc, 50 Hz, or 60 Hz		>60 dB at 50 Hz or 60 Hz
mVDC	1000V dc 750V ac rms (sine)	10 M Ω , <100 pF	>120 dB at dc, 50 Hz, or 60 Hz		>60 dB at 50 Hz or 60 Hz
VAC	1000V dc ⁶ 750V ac rms (sine)	>10 M Ω , <100 pF (ac-coupled)	>60 dB, dc to 60 Hz		
Ω	500V dc, 500V rms (sine)	Open Circuit Test Voltage	Full Scale Voltage		Short Circuit Current
			To 4.0 M Ω	40 M Ω	
		<1.3V dc	<450 mV dc	<1.3V dc	<500 μ A
	500V dc, 500V rms (sine)	<3.1V dc	2.45V dc	--	800 μ A typical
NOTES					
¹ With film capacitor or better and open lead reading subtracted from measurement. This meter uses a dc-type measurement technique. ² 10A continuous, 20A for 30 seconds maximum. ³ For rectangular waveforms 25% $\leq$ duty cycle $\leq$ 75%. ⁴ Maximum input for specified accuracy = 10 x Range or 750V. ⁵ Display rattle for sine wave below 500 = 5 counts. ⁶ 10 ⁷ V-Hz max.					