SPECIFICATIONS

Table 3. Specifications

FUNCTION	RANGE	RESOLUTION	ACCURACY*		
V⎓	3.200V	0.001V	+/-(0.1%+1)		
	32.00V	0.01V	+/-(0.1%+1)		
	320.0V	0.1V	+/-(0.1%+1)		
	1000V	1V	+/-(0.1%+1)		
mV⎓	320.0 mV	0.1 mV	+/-(0.1%+1)		
Ω	320.0Ω	0.1Ω	+/-(0.3%+2)		
	3.200 kΩ	0.001 kΩ	+/-(0.25%+1)		
	32.00 kΩ	0.01 kΩ	+/-(0.25%+1)		
	320.0 kΩ	0.1 kΩ	+/-(0.25%+1)		
	3.200 MΩ	0.001 MΩ	+/-(0.25%+1)		
	32.00 MΩ	0.01 MΩ	+/-(1%+1)		
(nS)	32.00 nS	0.01 nS	+/-(2%+10) typical		
))))) →+	2.000V	0.001V	+/-(1%+1) typical		
	For continuity tests, the beeper emits a continuous tone at test resistance below approximately 150Ω				
V~			20 Hz-40 Hz	40 Hz-1 kHz	1 kHz-5 kHz
	3.200V	0.001V	+/-(1.5%+5)	+/-(0.5%+5)	+/-(5%+5)
	32.00V	0.01V	+/-(1.5%+5)	+/-(0.5%+5)	+/-(5%+5)
	320.0V	0.1V	+/-(1.5%+5)	+/-(0.5%+5)	+/-(5%+5)
	1000V	1V	+/-(1.5%+5)	+/-(0.5%+5)	+/-(5%+5)
mV~	320.0 mV	0.1 mV	+/-(1.5%+5)	+/-(0.5%+5)	+/-(5%+5)

* Accuracy is specified as +/-([% of reading] + [number of least significant digits]).

Basic electrical accuracy is specified from 18 to 28°C, at a relative humidity of up to 95%, for one year after calibration.

Within a single ac range, accuracy is specified between 5 and 100% of full range. AC conversion method is AC coupled, true rms responding to signals whose crest factor is 3:1 or less.

Table 3. Specifications (cont)

FUNCTION	RANGE	RESOLUTION	ACCURACY	TYPICAL BURDEN VOLTAGE
mA/A	32.00 mA	0.01 mA	+/-(0.75%+2)	6 mV/mA
	320.0 mA	0.1 mA	+/-(0.75%+2)	6 mV/mA
	10.00 A	0.01A	+/-(1.75%+2)	50 mV/A
μA	320.0 uA	0.1 uA	+/-(0.75%+2)	0.5 mV/uA
	3200 uA	1 uA	+/-(0.75%+2)	0.5 mV/uA
mA/A	32.00 mA	0.01 mA	+/-(1.5%+5)	6 mV/mA
40 Hz-1 kHz#	320.0 mA	0.1 mA	+/-(1.5%+5)	6 mV/mA
	10.00 A	0.01A	+/-(2.5%+5)	50 mV/A
μA	320.0 uA	0.1 uA	+/-(1.5%+5)	0.5 mV/uA
40 Hz-1 kHz#	3200 uA	1 uA	+/-(1.5%+5)	0.5 mV/uA

FUNCTION	OVERLOAD PROTECTION	INPUT IMPEDANCE (nominal)	COMMON MODE REJECTION RATIO (1 kΩ unbalance)	NORMAL MODE REJECTION
V	1000V rms	10 MΩ in // with <100 pF	>120 dB at dc, 50 Hz, or 60 Hz	>60 dB at 50 Hz or 60 Hz
mV	750V rms	10 MΩ in // with <100 pF	>120 dB at dc, 50 Hz, or 60 Hz	>60 dB at 50 Hz or 60 Hz
V	1000V rms	10 MΩ in // with <100 pF (ac coupled)	>60 dB, dc to 60 Hz	
mV	750V rms	10 MΩ in // with <100 pF (ac coupled)	>60 dB, dc to 60 Hz	

Between 20 and 40 Hz, ac current ranges to 320 mA are specified to an accuracy of +/-(2%+5), and 10A ac current is specified to +/-(3%+5).

Table 3. Specifications (cont)

	OVERLOAD PROTECTION	OPEN CIRCUIT TEST VOLTAGE	FULL SCALE VOLTAGE	
			Up to 3.2 MΩ	32 MΩ or nS
Ω	750V rms	<2.8V dc	<420 mV dc	<1.3V dc

Fuse Protection	1A 600V Fast, 15A 600V Fast
Maximum Input Voltage	1000V Between any Terminal and Earth Ground
Digital Display	3200 counts, updates 2/sec
Analog Display	31 segments, updates 25/sec
Operating Temperature	-15°C to 55°C, to -40°C for 20 minutes when taken from 20°C
Storage Temperature	-55°C to 85°C
Temperature Coefficient	0.1 x (specified accuracy)/°C (<18°C or >28°C)
Relative Humidity	0% to 95% (0°C to 35°C) 0% to 70% (35°C to 55°C)
Battery Type	9V, NEDA 1604 or 6F22 or 006P
Battery Life	750 hrs typical
Shock, Vibration and Water Resistance	Per MIL-T-28800 for a Style A, Class 2 Instrument
Size (H x W x L)	2.2 in x 3.75 in x 8 in (5.6 cm x 9.5 cm x 20.3 cm)

Table 3. Specifications (cont)

Weight	1.6 pounds (0.75 kg)
Safety	Protection Class II per IEC 348 and ANSI C39.5
80K-6 High Voltage Probe	Voltage Range ..... 0 to 6 kV, dc or peak ac Input Impedance ..... 75 megohms +/-25 megohms Division Ratio ..... 1000:1 Accuracy DC to 500 Hz ..... +/-1% 500 Hz to 1 kHz ..... +/-2% Above 1 kHz ..... Output reading falls. (Typically, -30% at 10 kHz)