1-3. Specifications

Instrument specifications are presented in Table 1-1.

Table 1-1. Specifications

Function	Range	Resolution	Accuracy		
V⎓	3.200 V 32.00 V 320.0 V 1000 V	0.001 V 0.01 V 0.1 V 1 V	±(0.1%+1) ±(0.1%+1) ±(0.1%+1) ±(0.1%+1)		
mV⎓	320.0 mV	0.1 mV	±(0.1%+1)		
Ω (nS)	320.00 Ω 3.200 kΩ 32.00 kΩ 320.0 kΩ 3.200 MΩ 32.00 MΩ 32.00 nS	0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ 0.01 MΩ 0.01 nS	±(0.3%+3)* ±(0.2%+1) ±(0.2%+1) ±(0.2%+1) ±(0.2%+1) ±(1%+1) ±(0.2%+10)		
))) →	2.080 V	0.001 V	±(1%+1) typical		
V~			40 Hz-2 kHz	2 kHz -10 kHz	10 kHz -30 kHz
	3.200 V	0.001 V	±(0.5%+3)	±(2%+3)	±(4%+ 10)
	32.00 V	0.01 V	±(0.5%+3)	±(2%+3)	±(4%+ 10)
	320.0 V	0.1 V	±(0.5%+3)	±(2%+3)	±(4%+ 10)
	1000 V	1 V	±(1%+3)	±(3%+3)	Not Specified
mV~	320.0 mV	0.1 mV	±(0.5% +3)	±(2%+3)	±(4%+10)
* When using the REL Δ function to compensate for offsets.					

Function	Range	Resolution	Accuracy	Typical Burden Voltage
mA⎓/A	32.00 mA 320.0 mA 10.00 A	0.01 mA 0.1 mA 0.01 A	±(0.75%+2) ±(0.75%+2) ±(0.75%+2)	5.6 mV/mA 5.6 mV/mA 50 mV/A
⎓ µA	320.0 µA 3200 µA	0.1 µA 1 µA	±(0.75%+2) ±(0.75%+2)	0.5 mV/µA 0.5 mV/µA
~ mA/A 40-1000 Hz	32.00 mA 320.0 mA 10.00 A	0.01 mA 0.1 mA 0.01 A	±(1.5%+2) ±(1.5%+2) ±(1.5%+2)	5.6 mV/mA 5.6 mV/mA 50 mV/A
~ µA 40-1000 Hz	320.0 µA 3200 µA	0.1 µA 1 µA	±(1.5%+2) ±(1.5%+2)	0.5 mV/µA 0.5 mV/µA

Table 1-1. Specifications (cont)

Function	Overload Protection**	Input Impedance (nominal)	Common Mode Rejection Ratio (1 kΩ unbalance)	Normal Mode Rejection
$\overline{\overline{V}}$	1000 V rms	10 MΩ in // with <100pF	>120 dB at dc, 50 Hz, or 60 Hz	>60 dB at 50 Hz or 60 Hz
$\overline{\overline{mV}}$	1000 V rms	10 MΩ in // with <100pF	>120 dB at dc, 50 Hz, or 60 Hz	>60 dB at 50 Hz or 60 Hz
$\widetilde{V}$	1000 V rms	10 MΩ in // with <100pF (ac coupled)	>60 dB, dc to 60 Hz	
$\widetilde{mV}$	1000 V rms	10 MΩ in // with <100pF (ac coupled)	>60 dB, dc to 60 Hz	
Ω	1000 V rms	**Open Circuit Test Voltage**	**Full Scale Voltage**	
		<2.8 V dc	Up to 3.2 MΩ	32 MΩ or nS
			<420 mV dc	<1.3 V dc

** 10^7 V Hz Max

Basic electrical accuracy is specified from 18°C to 28°C with relative humidity up to 95%, for a period of one year after calibration. All ac conversions are ac coupled, average responding, and calibrated to read the true rms value of a sine wave input. Accuracy is specified as ±([% of reading] + [number of least significant digits]).

Ranging is either automatic or manual in all functions with more than one range. Test resistance below approximately 270 Ω in the •))) function produces a continuous audible tone.

Maximum voltage between any terminal and earth ground	1000 V
Fuse protection **mA or µA** **A**	 44/100 A 1000 V Fast 11 A 1000 V Fast
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 without battery, to 60°C with battery
Electromagnetic Compatibility	In an RF field of 2 V/m on all ranges and functions (except mVac), total accuracy = specified accuracy + 1.0% or range. For mVac, total accuracy = specified accuracy + 1.5% or range. EN 61326-1:1997.
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)
Altitude	2000 meters
Battery Type	9 V, NEDA 1604 or 6F22 or 006P
Battery Life	1000 hrs typical
Shock, Vibration and Water Resistance	Per MIL-T-28800 for a Style A, Class 2 Instrument
Size (HxWxL)	2.2 in x 3.75 in x 8 in (5.6 cm x 9.5 cm x 20.3 cm)
Weight	1.6 pounds (0.75 kg)
Waterproof	1 meter
Safety	Complies with ANSI/ISA S82.01-1994, CAN/CSA 22.2 NO. 1010.1:1992 to 1000 V Overvoltage Category III. UL License pending to UL3111-1. TUV License pending to EN61010-1.