Specification List

DC Characteristics Accuracy ± (% of reading + % of range)[1]				
Function	**Range**[2]	**Resolution**	**Input Resistance**	**1 Year (23°C ± 5°C)**
DCV[3] (DC Voltage)	100.0000 mV	0.1 uV	> 10GΩ	0.0050 + 0.0035
	1.000000 V	1.0 uV	> 10GΩ	0.0040 + 0.0007
	10.00000 V	10 uV	> 10GΩ	0.0035 + 0.0005
	100.0000 V	100 uV	10MΩ	0.0045 + 0.0006
	1000.000 V	1 mV	10MΩ	0.0045 + 0.0010

Function	**Range**	**Resolution**	**Shunt Resistance**	**1 Year (23°C ± 5°C)**
DCI (DC Current)	10.000000mA	10 nA	5.1Ω	0.050 + 0.020
	100.00000mA	100 nA	5.1Ω	0.050 + 0.005
	1.000000A	1 uA	0.1Ω	0.100 + 0.010
	3.00000A	10 uA	0.1Ω	0.120 + 0.020

Function	**Range**	**Resolution**	**Test Current**	**1 Year (23°C ± 5°C)**
Resistance[4]	100.0000 Ω	100 uΩ	1 mA	0.010 + 0.004
	1.000000 KΩ	1 mΩ	1 mA	0.010 + 0.001
	10.00000 KΩ	10 mΩ	100 uA	0.010 + 0.001
	100.0000 KΩ	100 mΩ	10 uA	0.010 + 0.001
	1.000000 MΩ	1 Ω	5 uA	0.010 + 0.001
	10.00000 MΩ	10 Ω	500 nA	0.040 + 0.001
	100.0000 MΩ	100 Ω	500 nA// 10MΩ	0.800 + 0.010
Diode Test	1.0000V	10 uV	1mA	0.010 + 0.020
Continuity	1000.00KΩ	10 mΩ	1mA	0.010 + 0.030

[1] Specifications are for 6 ½ digits and two hours warm up.

[2] 20% over range on all ranges except 1000Vdc and 3 A range.

[3] a. Using continuous integrating A/D converter.
b. Input bias current: less than 30 pA at 25° C.
c. Input protection: 1000V, all range.

[4] a. Specifications are for 4-wire ohms. For 2-wire ohms, use Math Null function.
b. Max. Lead Resistance: 10% of range per lead for 100Ω and 1KΩ ranges; 1kΩ per lead for all other ranges.
c. Input protection: 1000 V, all ranges.

Frequency and Period Characteristics

Accuracy ± (% of reading)[5]

Function	Range[6]	Frequency (Hz)	1 Year 23° C±5° C
Frequency & Period	100mV to 750V	3-5	0.10
		5-10	0.05
		10-40	0.03
		40-300K	0.01

AC Characteristics

Accuracy ± (% of reading + % of range)[7]

Function	Range[6]	Resolution	Frequency (Hz)	1 Year 23° C±5° C
ACV[8] (AC True RMS Voltage)	100.0000mV	0.1 uV	3-5	1.00 + 0.04
			5-10	0.35 + 0.04
			10-20K	0.06 + 0.04
			20-50K	0.12 + 0.05
			50K – 100K	0.60 + 0.08
			100K – 300K	4.00 + 0.50
	1.000000V to 750.000V	1.0 uV to 1mV	3-5	1.00 + 0.03
			5-10	0.35 + 0.03
			10-20K	0.06 + 0.03
			20-50K	0.12 + 0.05
			50K – 100K[9]	0.60 + 0.08
			100K – 300K	4.00 + 0.50
ACI[8] (AC True RMS Current)	1.000000A	1 uV	3-5	1.00 + 0.04
			5-10	0.30 + 0.04
			10-5K	0.10 + 0.04
	3.000000A	10 uV	3-5	1.10 + 0.06
			5-10	0.35 + 0.06
			10-5K	0.15 + 0.06

[5] Specifications are for 6 ½ digits and two hours warm up.

[6] 20% over range on all ranges except 750 Vac range.

[7] Specifications are for 6 ½ digits and two hours warm up, slow AC filter (3 Hz Bandwidth), sine wave input.

[8] Specifications are for sine wave input>5% of range. When the inputs are from 1% to 5% of range and <50 KHz, add the additional error for 0.1% of range. For 50 KHz to 100 KHz, add 0.13% of range.

[9] 750Vac range is limited to 100 KHz.

General Specifications

item	Limitation & description
Power Supply	100V/120V/220V/240V ± 10%
Power Line Frequency	50/60 Hz ± 10%
Power Consumption	25 VA peak (16 W average)
Operating Temperature	0°C to 50°C
Operating Humidity	Maximum relative humidity 80% for temperature up to 31°C
Storage Temperature	- 40°C to 70°C
Operating Altitude	Up to 2000m
Bench Dimensions (WxHxD)	224mm x 113mm x 373mm
Weight	4.36 kg
Safety[10]	IEC61010-1:2001/EN61010-1:2001 (2nd Edition) UL61010-1:2004 Measurement CAT II 600V, CAT I 1000V Pollution Degree 2
EMC	EN61326:1997+A1:1998+A2:2001+A3:2003 **EMI:** CISPR 11:1997+A1:1999+A2:2002 Class B IEC61000-3-2:2000 IEC61000-3-3:1994+A1:2001 **EMS:** IEC61000-4-2:1995+A1:1998+A2:2000 IEC61000-4-3:2002 IEC61000-4-4:2004 IEC61000-4-5:1995+A1:2000 IEC61000-4-6:1996+A1:2000 IEC61000-4-8:1993+A1:2000 IEC61000-4-11:1994+A1:2000

Specifications are subject to change without notice.
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[10] The LO jack is marked with 500Vpk against ground and SENSE HI to LO is only marked with 200Vpk, in opposition to the label of 600V CAT II and/or 1000V CAT I against ground and IEC 61010-1.