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Users Manual

Accuracy Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, relative humidity at 0 % to 75 %. Accuracy specifications take the form of: $\pm([\% \text{ of Reading}] + [\text{Number of Least Significant Digits}])$.

Function	Range	Resolution	Accuracy	
			106	107
AC Volts (40 Hz to 500 Hz) ^[1] $\tilde{V}$	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3	1.0 % + 3
DC Volts $\overline{V}$	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	0.5 % + 3	0.5 % + 3
AC Millivolts $\tilde{mV}$	600.0 mV	0.1 mV	3.0 % + 3	3.0 % + 3
Diode Test ^[2] $\rightarrow$	2.000 V	0.001 V	N/A	10 %

[1] All AC, Hz, and duty cycle are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

[2] Typically, open circuit test voltage is 2.0 V and short circuit current is <0.6 mA.



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Function	Range	Resolution	Accuracy	
			106	107
Resistance Ω	400.0 Ω	0.1 Ω	0.5 % + 3	0.5 % + 3
	4.000 k Ω	0.001 k Ω	0.5 % + 2	0.5 % + 2
	40.00 k Ω	0.01 k Ω	0.5 % + 2	0.5 % + 2
	400.0 k Ω	0.1 k Ω	0.5 % + 2	0.5 % + 2
	4.000 M Ω	0.001 M Ω	0.5 % + 2	0.5 % + 2
	40.00 M Ω	0.01 M Ω	1.5 % + 3	1.5 % + 3
Capacitance ^[1] μF	50.00 nF	0.01 nF	2 % + 5	2 % + 5
	500.0 nF	0.1 nF	2 % + 5	2 % + 5
	5.000 μF	0.001 μF	5 % + 5	5 % + 5
	50.00 μF	0.01 μF	5 % + 5	5 % + 5
	500.0 μF	0.1 μF	5 % + 5	5 % + 5
	1000 μF	1 μF	5 % + 5	5 % + 5

Function	Range	Resolution	Accuracy	
			106	107
Frequency ^[2] Hz (10 Hz to 100 kHz)	50.00 Hz 500.0 Hz 5.000 kHz 50.00 kHz 100.0 kHz	0.01 Hz 0.1 Hz 0.001 kHz 0.01 kHz 0.1 kHz	NA	0.1 % + 3
Duty Cycle ^[2]	1 % to 99 %	0.1 %	NA	1 % typical ^[3]

[1] Specifications do not include errors due to test lead capacitance and capacitance floor (may be up to 1.5 nF in the 50 nF range).

[2] All AC, Hz, and duty cycle readings are specified from 1 % to 100 % of range. Inputs below 1 % of range are not specified.

[3] Typical means when the frequency is at 50 Hz or 60 Hz and the duty cycle is between 10 % and 90 %.

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Function	Range	Resolution	Accuracy	
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AC Current (40 Hz to 200 Hz) $\tilde{A}^{[1]}$	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3	1.5 % + 3
DC Current $\overline{A}^{[1]}$	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3	1.5 % + 3
[1] 10 A duty cycle <7 minutes on, 20 minutes off, 25 °C to 40 °C.				

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Function	Overload Protection	Input Impedance (Nominal)	Common Mode Rejection Ratio	Normal Mode Rejection Ratio
AC Volts	600 V ^[1]	>10 M Ω <100 pF ^[2]	>60 dB at dc, 50 Hz or 60 Hz	–
AC Millivolts	600 mV	>1 M, <100 pF	>80 dB at dc, 50 Hz or 60 Hz	–
DC Volts	600 V ^[1]	>10 M Ω <100 pF	>100 dB at 50 Hz or 60 Hz	>60 dB at 50 Hz or 60 Hz

[1] 6 x 10⁵ V Hz Max.

[2] For mV (AC), input impedance is approximately 1 M Ω .