

Table 1-1. 8060A Specifications (cont)

AC Voltage (True-rms, AC-Coupled)

Ranges 200 mV, 2V, 20V, 200V, 300V

Accuracy* \pm (% of reading + no. of digits). See table below:

Input Voltage	Resolution	Range	20 Hz - 45 Hz	45 Hz - 1 kHz	1 kHz - 10 kHz	10 kHz - 30 kHz	30 kHz - 50 kHz	50 kHz - 100 kHz
20.0 - 199.99 mV	.01 mV	200 mV	1% + 10	0.2% + 12	0.2% + 20	0.5% + 40	1% + 100	3% + 200
.2000 - 1.999V	.1 mV	2V						
2.000 - 19.9999V	1 mV	20V						
20.00 - 199.99V	10 mV	200V						
30.0 - 300.0V	100 mV	300V	Not Specified	Not Specified				

* Not specified for input signals <10% of range.

Input Impedance 10 M Ω shunted by <100 pF

Common Mode Noise Rejection..... >60 dB at 50 Hz and 60 Hz (1 k Ω imbalance)

Crest Factor Range 1:1 to 3:1

Response Time..... Five seconds maximum to rated accuracy within selected range, 12 seconds to rated accuracy from an overload.

Overload Protection 300V

Table 1-1. 8060A Specifications (cont)

AC Voltage, dB Mode (True-rms, AC-Coupled)

Measurements are made in dBm referenced to 600Ω or relative dB. All specifications are the same as for ac voltage except the following:

Dynamic Range... With full .01 dB resolution, 89.34 dBm. Total specified dynamic range is 101.76 dBm (2.45 mV to 300.0V ac rms).

Resolution Depends on number of linear ac counts (count refers to the actual number on the display independent of the decimal point. See table below).

Linear Counts*	Resolution
19.999 to 1024	.01 dB
1023 to 128	.1 dB
127 to 16	1 dB

*Not specified below 245 counts.

Accuracy..... See table below:

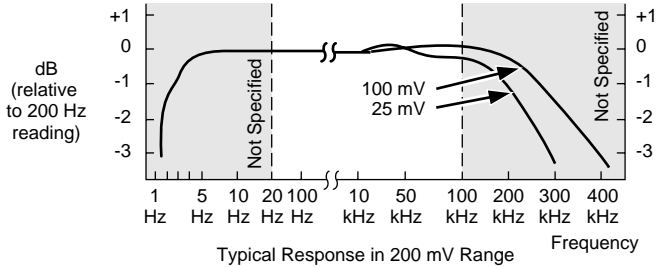
dBm Ref. 600Ω	Range	20 Hz - 45 Hz	45 Hz - 10 kHz	10 kHz - 30 kHz	30 kHz - 50 kHz**	50 kHz - 100 kHz**
-50.0 to -31.76 (2.45 mV to 20.00 mV)	200 mV	Not Specified				
-31.76 to -29.83 (20.00 mV to 25.00 mV)	200 mV	0.20 dB	0.50 dB	1.00 dB	2.20 dB	
-29.83 to -11.76 (25.00 mV to 199.99 mV)	200 mV	0.10 dB	0.15 dB	0.30 dB	0.50 dB	
-11.76 to 8.24 (.2000V to 1.9999V)	2V	0.10 dB*	0.10 dB*	0.15 dB*	0.30 dB*	0.50 dB*
8.24 to 28.24 (2.000V to 19.999V)	20V					
28.24 to 48.24 (20.00V to 199.99V)	200V					
dBm Ref. 600Ω	Range	20 Hz - 1 kHz**		1 kHz - 100 kHz**		
48.24 to 51.76 (200.0V to 300.0V)	300V	0.5 dB		Not specified		

*Specification applies above 8000 linear counts.

**Not specified for input signals <10% of range.

Table 1-1. 8060A Specifications (cont)

AC Voltage, dB Mode (cont.)



Frequency

Frequency Range (Fully Autoranging)	Resolution	Accuracy ±(% of reading + no. of digits)
200 Hz	.01 Hz	.05% + 1
2000 Hz	.1 Hz	
20 Hz	1 Hz	
200 Hz	10 Hz	

Input Signal	Sensitivity (based on sine wave V rms)
12 Hz to 20 kHz	20 mV or 10% of voltage range*
20 kHz to 100 kHz	50 mV or 25% of voltage range*
100 kHz to 200 kHz	150 mV or 75% of voltage range*

*Whichever value is greater.

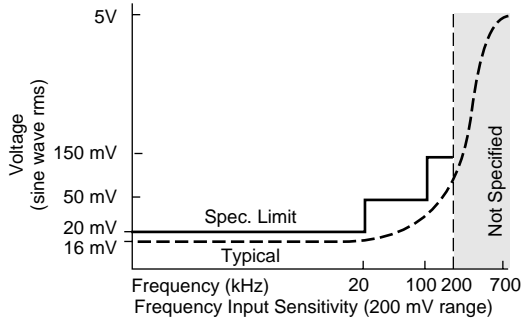


Table 1-1. 8060A Specifications (cont)

Frequency (cont.)

AC Voltage Range	Maximum Useable AC Voltage*
200 MV	±5V peak
2V	±50V peak
20V	±424V peak
200V	±424V peak
300V	±424V peak

*Signal not to exceed a volt-hertz product of 1×10^7 .

Input Characteristics Ac-coupled, 10 MΩ shunted by <100 pF

Overload Protection 300V - Input not to exceed a volt-hertz product of 10^7 (for example, 200V at 50 kHz).

Extended Frequency

Selection Enabled by holding down Hz button at power on.

Range 12 Hz to 700 kHz, typically.

Resolution 100 Hz above 200 kHz.

Accuracy ±(0.5% of reading + 2 digits)

Sensitivity

(sine wave V rms) Typically 100 mV at 200 kHz increasing to 4.5V at 700 kHz in the 200 mV range. Will measure a TTL signal (50% duty cycle) to 420 kHz, typically.

Resistance

Ranges 200Ω, 2 kΩ, 20 kΩ, 200 kΩ, autoranging MΩ. The MΩ range extends from .0001 mΩ to 300 MΩ in three autoranged ranges. Upscale range changes are made at 2 MΩ and 20 MΩ. Downscale range changes are made at 19 MΩ and 1.9 MΩ.

Accuracy ±(% of reading + no. of digits). See table below.