

Selector Guide Digital Multimeters

Model	2110	2100	2000	DMM7510	2010	2001
Page	246	250	254		265	259
Digits	5½	6½	6½	7½	7½	7½
Expansion Channels	N/A	N/A	10	Future	10	10
DC Volts						
Sensitivity	1 µV	0.1 µV	100 nV	10 nV	10 nV	10 nV
Maximum Reading	1000 V	1000 V	1000 V	1010 V	1000 V	1100 V
Basic Accuracy	0.012%	0.0038%	0.002%	0.0009%	0.0018%	0.0018%
Ratio		•		•	•	Option
DC Peak Spikes						•
AC Volts (TRMS)						
Sensitivity	1 µV	0.1 µV	100 nV	100 nV	100 nV	100 nV
Maximum Reading	750 V	750 V	750 V	707 V	750 V	775 V (1100 V pk)
Basic Accuracy	0.12%	0.08%	0.05%	0.06%	0.05%	0.03%
Bandwidth	10 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz to 300 kHz	3 Hz–300 kHz	1 Hz–2 MHz
dB, dBm		•	•	•	•	•
Frequency, Period	•	•	•	•	•	•
Peak/Avg/RMS	RMS	RMS		RMS		•
AC, AC + DC	AC	AC		AC		•
Ohms (2/4 Wire)						
Sensitivity	1 mΩ	100 µΩ	100 µΩ	0.1 µΩ	1 µΩ	1 µΩ
Maximum Reading	100 MΩ	100 MΩ	120 MΩ	1.2 GΩ	120 MΩ	1 GΩ
Basic Accuracy	0.02%	0.015%	0.008%	0.0024%	0.0032%	0.0032%
Continuity Test	•	•	•	•	•	•
Diode Test	•	•	•	•	•	•
Offset Compensation				•	•	•
Dry Circuit				•	•	•
Constant Current	•	•	•	•	•	•
Open Source Detect				•		
DC Amps						
Sensitivity	0.1 µA	10 nA	10 nA	1pA	1 nA	10 pA
Range Span	10 mA–10 A	10 mA–3 A	10 mA–3 A	10 µA–10.1 A	10 mA–3 A	200 µA–2 A
Basic Accuracy	0.15%	0.055%	0.03%	0.006%	0.03%	0.03%
In Circuit Current						•
AC Amps (TRMS)						
Sensitivity	10 µA	1 µA	1 µA	1 nA	1 µA	100 pA
Range Span	1 A–10 A	1 A–3 A	1 A–3 A	1 mA–10.1 A	1 A–3 A	200 µA–2 A
Basic Accuracy	0.3%	0.15%	0.1%	0.08%	0.1%	0.1%
Bandwidth	10 Hz–5 kHz	3 Hz–5 kHz	3 Hz–5 kHz	3 Hz to 10 kHz	3 Hz–5 kHz	20 Hz–100 kHz
General Features						
Interface	USB, GPIB (opt.)	USB	GPIB, RS-232	GPIB, USB, LAN/LXI	GPIB, RS-232	GPIB
Reading Hold	•	•	•		•	
Digital I/O	Trigger In/Out	•		•		•
Reading Memory	2000 rdg.	2000 rdg.	1024 rdg.	27.5M rdg.	1024 rdg.	Opt to 30,000
Maximum Speed	50K rdg/s	2000 rdg/s	2000 rdg/s	1M rdg/s	2000 rdg/s	2000 rdg/s
Temperature Meas.	T/C, RTD, Thermistor	RTD	T/C	T/C, RTD, Thermistor	T/C, RTD	T/C, RTD
Language Emulation		34401A	8840/42, 196/199		196/199	

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Model	2002	3706A	2015, 2016	2700	2701	2750
Page	259	275, 174	267	276	276	276
Digits	8½	7½	6½	6½	6½	6½
Expansion Channels	10	576		80	80	200
DC Volts						
Sensitivity	1 nV	10 nV	100 nV	100 nV	100 nV	100 nV
Maximum Reading	1100 V	300 V	1000 V	1000 V	1000 V	1000 V
Basic Accuracy	0.0006%	0.002%	0.002%	0.002%	0.002%	0.002%
Ratio	Option			w/MUX card	w/MUX card	w/MUX card
DC Peak Spikes	•					
AC Volts (TRMS)						
Sensitivity	100 nV	100 nV	100 nV	100 nV	100 nV	100 nV
Maximum Reading	775 V (1100 V pk)	300 V	750 V	750 V	750 V	750 V
Basic Accuracy	0.02%	0.05%	0.05%	0.06%	0.06%	0.06%
Bandwidth	1 Hz–2 MHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz
dB, dBm	•	•	•			
Frequency, Period	•	•	•	•	•	•
Peak/Avg/RMS	•					
AC, AC + DC	•					
THD, Harmonics			20 Hz–20 kHz			
Spectrum Peaks			-P versions			
Sine Source			4V/9V (10 Hz–20 kHz)			
Ohms (2/4 Wire)						
Sensitivity	100 nΩ	100 nΩ	100 µΩ	100 µΩ	100 µΩ	1 µΩ
Maximum Reading	1 GΩ	100 MΩ	120 MΩ	120 MΩ	120 MΩ	120 MΩ
Basic Accuracy	0.0007%	0.004%	0.008%	0.008%	0.008%	0.008%
Continuity Test		•		•	•	•
Diode Test				•		
Offset Compensation	•	•	•	•	•	•
Dry Circuit		•				•
Constant Current	•	•	•	•	•	•
Open Source Detect	•					
DC Amps						
Sensitivity	10 pA	1 pA	10 nA	10 nA	10 nA	10 nA
Range Span	200 µA–2 A	10 µA–3 A	10 mA–3 A	20 mA–3 A	20 mA–3 A	20 mA–3 A
Basic Accuracy	0.027%	0.03%	0.03%	0.03%	0.03%	0.03%
In Circuit Current	•					
AC Amps (TRMS)						
Sensitivity	100 pA	1 nA	1 µA	1 µA	1 µA	1 µA
Range Span	200 µA–2 A	1 mA–3 A	1 A–3 A	1 A–3 A	1 A–3 A	1 A–3 A
Basic Accuracy	0.1%	0.08%	0.1%	0.15%	0.16%	0.15%
Bandwidth	20 Hz–100 kHz	3 Hz–10 kHz	3 Hz–5 kHz	3 Hz–5 kHz	3 Hz–5 kHz	3 Hz–5 kHz
General Features						
Interface	GPIB	GPIB, LXI/Ethernet, USB	GPIB, RS-232	GPIB, RS-232	Ethernet, RS-232	GPIB, RS-232
Reading Hold			•	•	•	
Digital I/O	•	14	2 in/5 out (TTL)	2 in/5 out (TTL)		
Reading Memory	Opt to 30,000	650,000 rdg.	1024 rdg.	55,000 rdg.	450,000 rdg.	110,000 rdg.
Maximum Speed	2000 r dg/s	>14,000 rdg/s	2000 rdg/s	2000 rdg/s	3500 rdg/s	2500 rdg/s
Temperature Meas.	T/C, RTD	T/C, RTD, Thermistor	T/C	T/C, RTD, Thermistor	T/C, RTD, Thermistor	T/C, RTD, Thermistor
Language Emulation	HP 3458					

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