

# Keithley Digital Multimeter Selector Guide

Model												Model
<b>Display</b>	LCD 2 line	VFD 2 line	VFD	Touchscreen 5 in.	VFD	VFD	VFD	VFD	VFD	VFD	VFD 2 line	<b>Display</b>
<b>Digits</b>	5½	6½	6½	7½	7½	7½	8½	6½	6½	6½	7½	<b>Digits</b>
<b>No. Measurement Channels</b>			10		10	10	10	80	80	200	576	<b>No. Measurement Channels</b>
<b>DC VOLTS</b>												
<b>Measurement Range</b>	1 µV–1000 V	0.1 µV–1000 V	100 nV–1000 V	10 nV–1010 V	10 nV–1000 V	10 nV–1100 V	1 nV–1100 V	100 nV–1000 V	100 nV–1000 V	100 nV–1000 V	10 nV–300 V	<b>Measurement Range</b>
<b>Basic Accuracy</b>	0.012%	0.0038%	0.002%	0.0009%	0.0018%	0.0018%	0.0006%	0.002%	0.002%	0.002%	0.002%	<b>Basic Accuracy</b>
<b>Ratio</b>		✓		✓	✓	Option	Option	w/MUX card	w/MUX card	w/MUX card		<b>Ratio</b>
<b>DC Peak Spikes</b>						✓	✓					<b>DC Peak Spikes</b>
<b>AC VOLTS (TRMS)</b>												
<b>Measurement Range</b>	1 µV–750 V	0.1 µV–750 V	100 nV–750 V	100 nV–707 V	100 nV–750 V	100 nV–775 V	100 nV–775 V	100 nV–750 V	100 nV–750 V	100 nV–750 V	100 nV–300 V	<b>Measurement Range</b>
<b>Basic Accuracy</b>	0.12%	0.08%	0.05%	0.06%	0.05%	0.03%	0.02%	0.06%	0.06%	0.06%	0.05%	<b>Basic Accuracy</b>
<b>Bandwidth</b>	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	1 Hz–2 MHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz	3 Hz–300 kHz	<b>Bandwidth</b>
<b>dB, dBm</b>		✓	✓	✓	✓	✓	✓				✓	<b>dB, dBm</b>
<b>Frequency, Period</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<b>Frequency, Period</b>
<b>OHMS (2/4 WIRE)</b>												
<b>Measurement Range</b>	1 mΩ–100 MΩ	100 µΩ–100 MΩ	100 µΩ–120 MΩ	0.1 µΩ–1.2 GΩ	1 µΩ–120 MΩ	1 µΩ–1 GΩ	100 nΩ–1 GΩ	100 µΩ–120 MΩ	100 µΩ–120 MΩ	1 µΩ–120 MΩ	100 nΩ–100 MΩ	<b>Measurement Range</b>
<b>Basic Accuracy</b>	0.02%	0.015%	0.008%	0.0024%	0.0032%	0.0032%	0.0007%	0.008%	0.008%	0.008%	0.004%	<b>Basic Accuracy</b>
<b>Continuity Test</b>	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	<b>Continuity Test</b>
<b>Diode Test</b>	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	<b>Diode Test</b>
<b>Offset Compensation</b>				✓	✓	✓	✓	✓	✓	✓	✓	<b>Offset Compensation</b>
<b>Dry Circuit</b>				✓	✓					✓	✓	<b>Dry Circuit</b>
<b>DC AMPS</b>												
<b>Measurement Range</b>	0.1 µA–10 A	10 nA–3 A	10 nA–3 A	1pA–10.1 A	1 nA–3 A	10 pA–2 A	10 pA–2 A	10 nA–3 A	10 nA–3 A	10 nA–3 A	1 pA–3 A	<b>Measurement Range</b>
<b>Basic Accuracy</b>	0.15%	0.055%	0.03%	0.006%	0.03%	0.03%	0.027%	0.03%	0.03%	0.03%	0.03%	<b>Basic Accuracy</b>
<b>In Circuit Current</b>						✓	✓					<b>In Circuit Current</b>
<b>AC AMPS (TRMS)</b>												
<b>Measurement Range</b>	10 µA–10 A	1 µA–3 A	1 µA–3 A	1 nA–10.1 A	1 µA–3 A	100 pA–2 A	100 pA–2 A	1 µA–3 A	1 µA–3 A	1 µA–3 A	1 nA–3 A	<b>Measurement Range</b>
<b>Basic Accuracy</b>	0.3%	0.15%	0.1%	0.08%	0.1%	0.1%	0.1%	0.15%	0.16%	0.15%	0.08%	<b>Basic Accuracy</b>
<b>Bandwidth</b>	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	20 Hz–100 kHz	3 Hz–5 kHz	3 Hz–5 kHz	3 Hz–5 kHz	3 Hz–10 kHz	<b>Bandwidth</b>
<b>GENERAL FEATURES</b>												
<b>Interface</b>	USB, GPIB (opt.)	USB	GPIB, RS-232	GPIB, USB, LAN/LXI	GPIB, RS-232	GPIB	GPIB	GPIB, RS-232	LAN, RS-232	GPIB, RS-232	GPIB, LAN/LXI, USB	<b>Interface</b>
<b>Reading Hold</b>	✓	✓	✓		✓			✓	✓			<b>Reading Hold</b>
<b>Digital I/O</b>	Trigger In Meter Complete	Trigger In Meter Complete	Trigger In Meter Complete	Trigger In Meter Complete 6 General I/O	Trigger In Meter Complete	Trigger In Meter Complete 1 In, 4 Out	Trigger In Meter Complete 1 In, 4 Out	2 Trigger In, 5 Limit Out	2 Trigger In, 5 Limit Out	2 Trigger In, 5 Limit Out	14 General I/O	<b>Digital I/O</b>
<b>Reading Memory</b>	2000 rdg.	2000 rdg.	1024 rdg.	27.5M rdg.	1024 rdg.	Opt to 30,000	Opt to 30,000	55,000 rdg.	450,000 rdg.	110,000 rdg.	650,000 rdg.	<b>Reading Memory</b>
<b>Maximum Speed</b>	50K rdg/s	2000 rdg/s	2000 rdg/s	1M rdg/s (18-bit digitizing)	2000 rdg/s	2000 rdg/s	2000 rdg/s	2000 rdg/s	3500 rdg/s	2500 rdg/s	>14,000 rdg/s	<b>Maximum Speed</b>
<b>Temperature Measurement</b>	T/C, RTD, Thermistor	RTD	T/C	T/C, RTD, Thermistor	T/C, RTD	T/C, RTD	T/C, RTD	T/C, RTD, Thermistor	T/C, RTD, Thermistor	T/C, RTD, Thermistor	T/C, RTD, Thermistor	<b>Temperature Measurement</b>

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MODEL 2110



MODEL 2000



DMM7510



MODEL 2700



MODEL 2750



MODEL 3706A

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