

Comparison of REED Multimeters



MODEL	R5099	R5008	R5007	R5010	R5005
AC/DC VOLTAGE					
Range	AC: 4, 40, 400, 600V DC: 400mV, 4, 40, 400, 600V	AC: 400mV, 4, 40, 400, 600V DC: 400mV, 4, 40, 400, 600V	AC/DC: 60, 600mV, 6, 60, 600V	AC/DC: 400mV, 4, 40, 400, 1000V	AC/DC: 50, 500mV, 5, 50, 500, 1000V
Accuracy	AC: 4, 40V ±(1.2% rdg + 5 dgt), 400, 600V ±(2% rdg+ 10 dgt) DC: 400mV ±(1% rdg+ 8 dgt), 4, 40V ±(0.5% rdg+ 5 dgt), 400, 600V ±(0.8% rdg+ 5 dgt)	AC: 400mV: ±(15% rdg + 15 dgt), 4V: ±(1.2% rdg + 3 dgt), 40, 400V: ±(1.5% rdg + 3 dgt), 600V: ±(2.0% rdg + 4 dgt) DC: 400mV: ±(0.05% rdg + 2 dgt), 4, 40, 400V: ±(1.2% rdg + 2 dgt), 600V: ±(1.5% rdg + 2 dgt)	AC: 60, 600mV: ±(0.5% rdg + 2 dgt), 6, 60, 600V: ±(0.7% rdg + 3 dgt) DC: 60, 600mV: ±(1.0% rdg + 2 dgt), 6, 60, 600V: ±(0.8% rdg + 3 dgt)	AC: 400mV: ±(1.0% rdg + 5 dgt), 4, 40, 400, 1000V: ±(1.0% rdg + 3 dgt) DC: 400mV, 4, 40, 400V: ±(0.06% rdg + 2 dgt), 1000V: ±(0.1% rdg + 5 dgt)	AC: 50/60Hz: ±(0.3% rdg + 25 dgt), <1khz: ±(0.5% rdg + 25 dgt), <5khz: ±(3% rdg + 25 dgt) DC: 50mV: ±(0.5% rdg + 20 dgt), 500mV, 5, 50, 500V: ±(0.025% rdg + 5 dgt), 1000V: ±(0.1% rdg + 5 dgt)
Resolution	AC: 0.01, 0.01, 0.1, 1V DC: 0.1mV, 0.001, 0.01, 0.1, 1V	AC/DC: 0.1mV, 1, 10, 100V	AC/DC: 0.1, 1, 10mV, 0.1, 1V	AC: 0.1mV, 0.001, 0.01, 1V DC: 0.01mV, 0.0001, 0.01, 0.1V	AC/DC: 0.001, 0.01mV, 0.0001, 0.001, 0.01, 0.1V
AC/DC CURRENT					
Range	400µA, 4, 40, 400mA	AC/DC: 400, 4000µA, 40, 400mA, 10A	AC/DC: 600, 6000µA, 60, 600mA, 6, 10A	AC/DC: 400, 4000µA, 40, 400mA, 10A	AC/DC: 500, 5000µA, 50, 500mA, 10A
Accuracy	AC: 400µA, 4, 40, 400mA ±(2% rdg + 8 dgt) DC: 400µA, 4, 40, 400mA ±(1.8% rdg + 5 dgt)	AC: 400µA: ±(1.5% rdg + 5 dgt), 4000µA, 40, 400mA: ±(1.8% rdg + 5 dgt), 10A: ±(3.0% rdg + 7 dgt) DC: 400µA: ±(1.0% rdg + 3 dgt), 4000µA, 40, 400mA: ±(1.5% rdg + 3 dgt), 10A: ±(2.5% rdg + 5 dgt)	AC: 600, 6000µA, 60, 600mA: ±(1.0% rdg + 3 dgt), 6, 10A: ±(1.2% rdg + 3 dgt) DC: 600, 6000µA, 60.00mA, 600.0mA: ±(0.7% rdg + 2 dgt), 6.000, 10.00A: ±(1.0% rdg + 3 dgt)	AC: ±(1.5% rdg + 3 dgt) DC: ±(1.0% rdg + 3 dgt)	AC: 50/60Hz: ±(0.6% rdg + 25 dgt), <1khz: ±(1.5% rdg + 25 dgt), <5khz: ±(3% rdg + 25 dgt) DC: 500, 5000µA, 50mA: ±(0.1% rdg + 20 dgt), 500mA: ±(0.15% rdg + 20 dgt), 10A: ±(0.3% rdg + 20 dgt)
Resolution	0.1µA, 0.001, 0.01, 0.1mA	AC/DC: 0.1, 1µA, 10, 100mA, 1A	AC/DC: 0.1, 1, 10µA, 0.1, 1, 10mA	AC: 0.1, 1µA, 0.01, 0.1mA, 0.01A DC: 0.01, 0.1µA, 0.001, 0.01mA, 0.001A	AC/DC: 0.01, 0.1µA, 0.001, 0.01mA, 0.001A
RESISTANCE					
Range	400Ω, 4, 40, 400kΩ, 4, 40MΩ	400Ω, 4, 40, 400kΩ, 4, 40MΩ	600Ω, 6, 60, 600kΩ, 6, 60MΩ	400Ω, 4, 40, 400kΩ, 4, 40MΩ	50, 500Ω, 5, 50, 500kΩ, 5, 50MΩ
Accuracy	400Ω, 4, 40, 400kΩ: ±(1% rdg + 5 dgt), 4MΩ: ±(1.2% rdg + 10 dgt)	400Ω: ±(1.2% rdg + 4 dgt), 4kΩ: ±(1.0% rdg + 2 dgt), 40, 400kΩ, 4MΩ: ±(1.2% rdg + 2 dgt), 40MΩ: ±(2.0% rdg + 3 dgt)	600Ω: ±(1.0% rdg + 2 dgt); 6, 60, 600kΩ: ±(0.8% rdg + 2 dgt), 6MΩ: ±(1.2% rdg + 3 dgt), 60MΩ: ±(1.5% rdg + 5 dgt)	400Ω: ±(0.3% rdg + 9 dgt), 4, 40, 400kΩ, 4MΩ: ±(0.3% rdg + 4 dgt), 40MΩ: ±(2.0% rdg + 10 dgt)	50Ω: ±(0.5% rdg + 20 dgt), 500Ω, 5, 50kΩ: ±(0.05% rdg + 10 dgt), 500kΩ: ±(0.1% rdg + 10 dgt); 5MΩ: ±(0.2% rdg + 20 dgt), 50MΩ: ±(2% rdg + 20 dgt)
Resolution	0.1, 1, 10, 100Ω, 1, 10kΩ	0.01Ω, 1, 10, 100kΩ, 1, 10MΩ	0.1, 1, 10, 100Ω, 1, 10kΩ	0.01Ω, 0.0001, 0.001, 0.01kΩ, 0.001MΩ	0.001, 0.01Ω, 0.0001, 0.001, 0.01kΩ, 0.01, 0.001MΩ
CAPACITANCE					
Range	50, 500nF, 5, 50, 100µF	4, 40, 400nF, 4, 40, 200µF	9.999nF, 99.99nF to 999.9µF, 9.999 to 99.99mF	40, 400nF, 4, 40, 400, 4000µF, 40mF	5, 50, 500nF, 5, 50, 500µF, 10mF
Accuracy	50nF: ±(4% rdg+ 30 dgt), 500nF: ±(3% rdg + 15 dgt), 5, 50, 100µF: ±(4% rdg + 10 dgt)	4nF: ±(5.0% rdg + 50 dgt), 40nF: ±(5.0% rdg + 7 dgt), 400nF, 4, 40uF: ±(3% rdg + 5 dgt), 200µF: ±(5% rdg + 5 dgt)	9.999nF: Under REL (±4% rdg + 10 dgt), 99.99nF to 999.9uF: ±(4.0% rdg + 5 dgt), 9.999 to 99.99mF: ±(10% rdg (<2mF)	40, 400nF: ±(3.5% rdg + 40 dgt), 4, 40, 400µF: ±(3.5% rdg + 10 dgt), 4000µF, 40mF: ±(5% rdg + 10 dgt)	5, 50, 500nF, 5, 50µF: ±(2% rdg + 40 dgt), 500µF, 10mF: ±(5% rdg + 40 dgt)
Resolution	0.01, 0.1, 1, 10, 100nF	1, 10pF, 0.1, 1, 10nF, 0.1µF	1pF, 10pf to 0.1µF, 1µF to10µF	0.001, 0.01nF, 0.0001, 0.001, 0.01, 0.1µF, 0.001mF	0.001, 0.01, 0.1nF, 0.001, 0.01, 0.1µF, 0.01mF
FREQUENCY					
Range	9.999Hz to 60kHz	9.999, 99.99, 999.9Hz, 9.999, 99.99, 999.9kHz, 9.999MHz	9.999Hz to 9.999MHz	40, 400Hz, 4, 40, 400kHz, 4, 40, 100MHz	50, 500Hz, 5, 50, 500kHz, 5, 10MHz
Accuracy	±(0.1% rdg + 5 dgt)	9.999, 99.99Hz: ±(1.5% rdg + 5 dgt), 999.9Hz, 9.999, 99.99, 999.9kHz: ±(1.2% rdg + 3 dgt), 9.999MHz: ±(1.5% rdg + 4 dgt)	±(0.1% rdg + 4 dgt)	±(0.1% rdg + 1 dgt)	±(0.01% rdg + 10 dgt)
Resolution	0.001Hz to 0.001MHz	0.001, 0.01, 0.1, 1, 10, 100Hz, 1kHz	0.001Hz to 0.001Mz	0.00, 0.01Hz, 0.0001, 0.001, 0.01kHz, 0.0001, 0.001, 0.01MHz	0.001, 0.01Hz, 0.0001, 0.001, 0.01kHz, 0.0001, 0.001MHz
TEMPERATURE					
Range	N/A	-4 to 1400°F (-20 to 760°C)	-40 to 1832°F (-40 to 1000°C)	-58 to 1832°F (-50 to 1000°C)	-58 to 1832°F (-50 to 1000°C)
Accuracy	N/A	±(3.0% rdg + 9°F); ±(3.0% rdg + 5°C)	±(2.5% rdg + 5°F); ±(2.0% rdg + 3°C)	±(1.0% rdg + 4.5°F); ±(1.0% rdg + 2.5°C)	±(1.0% rdg + 4.5°F); ±(1.0% rdg + 2.5°C)
Resolution	N/A	1°F/°C	1°F/°C	1°F/°C	1°F/1°C
4-20mA%					
Range	N/A	N/A	N/A	-25 to 125%	N/A
Accuracy	N/A	N/A	N/A	±(50 dgt)	N/A
Resolution	N/A	N/A	N/A	0.01%	N/A
GENERAL SPECIFICATIONS					
Range Selection	Autoranging	Autoranging/Manual	Autoranging/Manual	Autoranging/Manual	Autoranging/Manual
True RMS	N/A	N/A	Yes	Yes	Yes
Measure AC & DC Signals Simltaneously	N/A	N/A	N/A	N/A	Yes
Diode Test	Yes	Yes	Yes	Yes	Yes
Continuity Check	Audible signal ≤10Ω	Audible signal ≤150Ω	Audible signal ≤10Ω	Audible signal ≤35Ω	Audible signal ≤25Ω
Duty Cycle	N/A	Yes (0.1 to 99.9%)	Yes (0.1 to 99.9%)	Yes (0.1 to 99.9%)	Yes (0.1 to 99.9%)
Display	4,000 count LCD display	4,000 count LCD	6,000 count LCD	40,000 count LCD	50,000 count LCD
Display Hold	Yes	Yes	Yes	Yes	Yes
Max/Min	N/A	N/A	Yes	Yes	Yes
Peak Hold	N/A	Yes	N/A	Yes	Yes
Relative Mode	N/A	Yes	Yes	Yes	Yes
Backlit Display	N/A	N/A	Yes	Yes	Yes
Digital Analog Bargraph	N/A	N/A	N/A	Yes	Yes
Recording Capabilities	N/A	N/A	N/A	N/A	Yes (Over 2-hr recording time)
Wireless Connectivity	N/A	N/A	N/A	N/A	Yes (Bluetooth via software)
Non-Contact Voltage Detector	Yes	N/A	Yes	N/A	N/A
Built-in Flashlight	N/A	N/A	N/A	N/A	N/A
Kick Stand	N/A	Yes	Yes	Yes	Yes
Auto Power Off	Yes (after 30 minutes)	Yes (after 15 minutes)	Yes (after 15 minutes)	Yes (after 15 minutes)	Yes (after 15 minutes)
Power Supply	2 x AAA Batteries	9V Battery	2 x AA Batteries	9V Battery	Li-ion Rechargeable Battery
Low Battery Indicator	Yes	Yes	Yes	Yes	Yes
Fuse Protection	Yes	Yes	Yes	Yes	Yes
Replaceable Test Leads	No	Yes	Yes	Yes	Yes
Software OS Compatability	N/A	N/A	N/A	N/A	Windows XP, 7, 8 and 10
Overvoltage Category	CAT III 600V	CAT. III 600V	CAT. III 600V	CAT. IV 600V, CAT. III 1000V	CAT. IV 600V, CAT. III 1000V
Product Certifications	CE	CE	CE	CE, IP67, Drop Tested (2m)	CE, IP67
Operating Temperature	32 to 104°F (0 to 40°C)	32 to 122°F (0 to 50°C)	41 to 104°F (5 to 40°C)	41 to 104°F (5 to 40°C)	32 to 122°F (0 to 50°C)
Storage Temperature	14 to 122°F (-10 to 50°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Dimensions	4.4 x 2.3 x 1.4" (112 x 58 x 35mm)	5.9 x 2.8 x 1.9" (150 x 70 x 48mm)	6.9 x 3.2 x 1.9" (175 x 80 x 49mm)	7.4 x 3.2 x 2.0" (187 x 81 x 50mm)	8.7 x 3.8 x 2.4" (220 x 96 x 60mm)
Weight	6.3 oz (180g)	9 oz (255g)	13 oz (370g)	12 oz (342g)	22 oz (631g)

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