

True RMS Digital Multimeter, **AC/DC 1000V** Model **R5077**



TECHNICAL DATA



True RMS multimeter measures AC/DC voltage, current, frequency, resistance, capacitance, and temperature, and features a built-in non-contact voltage detector.

Features

- Measures AC/DC voltage and current, frequency, resistance, capacitance and temperature
- Built-in non-contact voltage detector and rugged double molded plastic housing
- Diode check and continuity functions
- · Relative and data hold functions
- Backlit LCD and low battery indicator
- Cat. CAT III. 600V safety rating
- Includes test leads, thermocouple wire probe (type K) and batteries

Applications

- Troubleshooting electrical systems in residential, commercial, and industrial settings
- Performing routine maintenance checks on electrical equipment
- Testing and diagnosing issues in various types of machinery and appliances
- Verifying electrical connections and installations for safety compliance
- Conducting repairs and maintenance on HVAC and automotive systems
- Supporting educational and laboratory environments for electronics training and experiments
- · Assisting in general DIY electrical projects and repairs around the home

Specifications

AC/DC Voltage

Range: AC/DC: 9.999mV, 99.99mV,

999.9mV, 9.999V, 99.99V,

999.9V

AC: 9.999mV, 99.99mV Accuracy:

 $\pm (1\% \text{ rdg.} + 3 \text{dgt.})$

999.9mV, 9.999V, 99.99V, $999.9V \pm (0.8\% \text{ rdg.} + 3\text{dgt.})$ DC: 9.999mV, 99.99mV ±(0.7%

rdg. + 8dgt.)

999.9mV. 9.999V. 99.99V. 999.9 $V \pm (0.5\% \text{ rdg.} + 3\text{dgt.})$ AC/DC: 0.001mV, 0.01mV, 0.1mV, 0.001V, 0.01V, 0.1V

AC/DC Current

Resolution:

Range: AC/DC: 999.9µA, 999.9mA,

9.999A

AC: 999.9µA Accuracy:

> $\pm (1.0\% \text{ rdg.} + 3 \text{dgt.})$ 999.9mA, 9.999A $\pm (1.2\% \text{ rdg.} + 3 \text{dgt.})$

DC: 999.9µA

 \pm (0.8% rdg. + 3dgt.) 999.9mA, 9.999A $\pm (1.0\% \text{ rdg.} + 3 \text{dgt.})$

Resolution: AC/DC: 0.1μA, 0.1mA,

> O.OO1ALength Range: 0-99,999 m/in/ft

Continued...





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Resistance

Range: 999.9 Ω , 9.999K Ω ,

99.99 $K\Omega$, 999.9 $K\Omega$, 9.999 $M\Omega$

Accuracy: 999.9 Ω , 9.999K Ω , 99.99K Ω ,

999.9K Ω : ±(0.8% rdg. + 2dgt.) 9.999M Ω : ±(1.5% rdg. + 3dgt.)

99.99M Ω : ±(2.0% rdg. + 5dgt.)

Resolution: 0.1Ω , $0.001K\Omega$, $0.01K\Omega$,

 $0.1K\Omega$, $0.001M\Omega$, $0.01M\Omega$

Capacitance

Range: 9.999nF, 99.99nF, 999.9nF,

9.999µF, 99.99µF, 999.9µF,

9.999mF

Accuracy: 9.999nF: (±4%+10dgt.)

99.99nF, 999.9nF, 9.999µF,

99.99µF, 999.9µF: ±(4.0% rdg. + 5dgt.)

9.999mF: ±(10% rdg.) 0.001nF, 0.01nF, 0.1nF,

Ο.ΟΟ1μϜ, Ο.Ο1μϜ, Ο.1μϜ,

0.001mF

Frequency

Resolution:

Range: 99.99Hz to 9.999MHz

Accuracy: ±(0.1% rdg. + 5dgt.)

Resolution: 0.001Hz to 0.001MHz

Temperature

Range: -40 to 1832°F (-40 to 1000°C)

Accuracy: $\pm (2.5\% \text{ rdg.} + 5^{\circ}\text{F})$ $\pm (2.0\% \text{ rdg.} + 5^{\circ}\text{C})$

±(E.070 rug. -

Resolution: 1°F, 1°C

General Specifications

Range Selection: Autoranging

True RMS: Yes

Display: 9,999 count LCD Display

Display Hold: Yes
Relative Mode: Yes
Diode Test: Yes
Backlit Display: Yes

Continuity Check: Audible signal if resistance $\leq 30\Omega$

Duty Cycle: Yes (0.1 - 99.9%)

Non-Contact

Voltage Detector: Yes

Magnetic Hanging

Strap Compatible: Yes (R5900 sold separately)

Kick Stand: Yes

Auto Power Off: Yes (after 15 minutes)

Power Supply: 3x AA Batteries

Low Battery Indicator: Yes
Fuse Protection: Yes
Replaceable Test Leads: Yes

Overvoltage Category: CAT. III 600V

Product Certifications: CE, UKCA, ETL
Operating Temperature: 32 to 104°F (0 to 40°C)

Storage Temperature: 14 to $122^{\circ}F$ (-10 to $50^{\circ}C$) Dimensions: 7.4 x 3.5 x 2.2" (187 x 88 x 56mm)

Weight: 14oz (400g)

Model	Description
R5077	Tue RMS Digital Multimeter, AC/DC 1000V
R5400	Line Splitter
R5900	Magnetic Meter Strap
R2990	Thermocouple Adapter
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Surface Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
R1020	Fused Test Lead Set
R5077-NIST	True RMS Digital Multimeter, AC/DC 1000V & NIST

