

### 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
Accuracy:	AC: 9.999mV, 99.99mV ±(1% rdg. + 3dgt.) 999.9mV, 9.999V, 99.99V, 999.9V ±(0.8% rdg. + 3dgt.) DC: 9.999mV, 99.99mV ±(0.7% rdg. + 8dgt.) 999.9mV, 9.999V, 99.99V, 999.9V ±(0.5% rdg. + 3dgt.)
Resolution:	AC/DC: 0.001mV, 0.01mV, 0.1mV, 0.001V, 0.01V, 0.1V

##### AC/DC Current

Range:	AC/DC: 999.9μA, 999.9mA, 9.999A
Accuracy:	AC: 999.9μA ±(1.0% rdg. + 3dgt.) 999.9mA, 9.999A ±(1.2% rdg. + 3dgt.) DC: 999.9μA ±(0.8% rdg. + 3dgt.) 999.9mA, 9.999A ±(1.0% rdg. + 3dgt.)
Resolution:	AC/DC: 0.1μA, 0.1mA, 0.001A
Length Range:	0-99,999 m/in/ft

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#### Resistance

Range:	999.9Ω, 9.999KΩ, 99.99KΩ, 999.9KΩ, 9.999MΩ, 99.99MΩ
Accuracy:	999.9Ω, 9.999KΩ, 99.99KΩ, 999.9KΩ: ±(0.8% rdg. + 2dgt.) 9.999MΩ: ±(1.5% rdg. + 3dgt.) 99.99MΩ: ±(2.0% rdg. + 5dgt.)
Resolution:	0.1Ω, 0.001KΩ, 0.01KΩ, 0.1KΩ, 0.001MΩ, 0.01MΩ

#### 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.)
Resolution:	0.001nF, 0.01nF, 0.1nF, 0.001μF, 0.01μF, 0.1μF, 0.001mF

#### Frequency

Range:	99.99Hz to 9.999MHz
Accuracy:	±(0.1% rdg. + 5dgt.)
Resolution:	0.01Hz to 0.001MHz

#### Temperature

Range:	-40 to 1832°F (-40 to 1000°C)
Accuracy:	±(2.5% rdg. + 5°F) ±(2.0% rdg. +5°C)
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 ≤30Ω
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°F (-10 to 50°C)
Dimensions:	7.4 x 3.5 x 2.2" (187 x 88 x 56mm)
Weight:	14oz (400g)

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