REED INSTRUMENTS

True RMS Multimeter, Data Logger

Model **R5005**

TECHNICAL DATA



Features

- Measures AC/DC voltage and current, frequency, resistance, capacitance and temperature
- Record data and and review trends with included software
- Relative, Peak, Min/Max and data hold functions
- Wireless Bluetooth Connectivity
- Waterproof (IP67) double molded plastic housing
- Cat. IV 600V, Cat. III 1000V safety rating
- Includes test leads, type K thermocouple wire probe, thermocouple adapter, weatherproof plugs, AC adapter, li-ion battery, and software

Specifications

AC/DC Voltage

Range:	AC: 50, 500mV, 5, 50, 500, 1000V DC: 50, 500mV, 5, 50, 500, 1000V
Accuracy:	AC: 50/60Hz ±(0.3% rdg. + 25 dgt.) <1 Khz ±(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: 0.001, 0.01mV, 0.0001, 0.001, 0.01, 0.1V DC: 0.001, 0.01mV, 0.0001, 0.001, 0.01, 0.1V

AC/DC Current

Range:	500, 5000µA, 50, 500mA, 10A
Accuracy:	AC: 50/60Hz ±(0.6% rdg. + 25 dgt.) <1 Khz ±(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:	0.01, 0.1µA, 0.001, 0.01mA, 0.001A

Resistance

Range:	50, 500Ω, 5, 50, 500kΩ, 5, 50MΩ
Accuracy:	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:	0.001, 0.01Ω, 0.0001, 0.001, 0.01kΩ, 0.01, 0.001MΩ

Capacitance

Range:	5, 50, 500nF, 5, 50, 500µF, 10mF
Accuracy:	5, 50,500nF, 5,50µF ±(2%+40 dgt.) 500µF, 10mF ±(5%+40 dgt.)
Resolution:	0.001, 0.01, 0.1nF, 0.001, 0.01, 0.1µF, 0.01mF

Frequency

Range:	50, 500Hz, 5, 50, 500kHz, 5, 10MHz
Accuracy:	±(0.01%+10 dgt.)
Resolution:	0.001, 0.01Hz, 0.0001, 0.001, 0.01kHz, 0.0001, 0.001MHz

Temperature

Range:	-58 to 1832°F (-50 to 1000°C)
Accuracy:	±(1.0% rdg. + 4.5°F) ±(1.0% rdg. + 2.5°C)
Resolution:	1°F, 1°C

Continued…

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TECHNICAL DATA

General Specifications

Range Selection:	Autoranging/Manual
True RMS:	Yes
Measure AC/DC signals simultaneously:	Yes
Display:	50,000 count 320 x 240 TFT color LCD display
Display Hold:	Yes
Max/Min:	Yes
Peak Hold:	Yes
Relative Mode:	Yes
Diode Test:	Yes
Recording Capabilities:	Yes (Over 2 hr recording time)
Wireless Connectivity:	Yes (Bluetooth via software)
Backlit Display:	Yes
Digital Analog Bargraph:	Yes
Continuity Check:	Audible signal if resistance ≤25Ω
Duty Cycle:	Yes (0.1 - 99.9%)
Kick Stand:	Yes
Auto Power Off:	Yes (after 15 minutes)
Power Supply:	Li-ion Rechargeable Battery
Low Battery Indicator:	Yes
Fuse Protection:	Yes
Replaceable Test Leads:	Yes
Software OS Compatibility:	Windows XP/7/8/10
Overvoltage Category:	CAT. IV 600V, CAT. III 1000V
Product Certifications:	CE, IP67
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Dimensions:	8.7 x 3.8 x 2.4" (220 x 96 x 60mm)
Weight:	22oz (631g)





Model	Description
R5005	True RMS Multimeter, Data Logger
CP-09	AC Current Adapter
R2990	Thermocouple Adapter
TP-01	Type K Thermocouple Wire Probe
R1000	Safety Test Lead Set, Double Insulated
R1020	Fused Test Lead Set
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Surface Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
R1220	Safety Alligator Clips
CA-05A	Soft Carrying Case
R8888	Hard Carrying Case
R5005-NIST	True RMS Multimeter, Data Logger & NIST

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