

TECHNICAL DATA



This high-performance clamp meter is designed for high-voltage applications, offering accurate AC/DC current and voltage measurements, a 9,999-count backlit LCD, and a rugged IP65-rated build, ideal for demanding environments like solar and wind power installations.

Features

- Measures AC/DC current and voltage, resistance, capacitance, frequency, and contact temperature
- High-resolution 9,999-count backlit LCD display
- Dual display allows simultaneous viewing of voltage and current measurements
- True RMS voltage and current for accurate measurements
- Expandable AC current measurement up to 3000A with the flexible current probe (R5065, sold separately)

- Slim jaw design for easy access to cables in crowded combiner boxes, with the capacity to clamp around multiple cables
- Ergonomically designed for a comfortable grip and can be used with protective gloves
- DC power measurement capability with kVA readings
- IP65-rated for reliable performance in dusty or damp outdoor environments, ideal for solar and wind power applications
- Audible and visual polarity indicator to prevent accidental miswiring
- Low Pass Filter (LPF) and inrush measurement capabilities for precise motor and HVAC testing
- Min, Max, Average, Peak capturing and display hold
- Diode test and continuity check functions
- Low battery and over-range indicators
- Cat. III 1500V, Cat. IV 600V safety rating
- Includes Thermocouple Wire Probe (type K), thermocouple adapter, test leads, carrying case and batteries

Specifications

AC/DC Current

Range:	999.9A
Accuracy:	AC: $\pm(2.5\% \text{ rdg.} + 5\text{dgt.})$ DC: $\pm(2.0\% \text{ rdg.} + 5\text{dgt.})$ Resolution: 0.1 Ω , 0.001K Ω , 0.01K Ω , 0.1K Ω , 0.001M Ω , 0.01M Ω
Resolution:	0.1A

AC/DC Voltage

Range:	AC: 999.9V, 1500V DC: 999.9mV, 999.9V, 2500V
Accuracy:	$\pm(1.0\% \text{ rdg.} + 5\text{dgt.})$
Resolution:	0.1mV, 0.1V, 1V

Resistance

Range:	999.9 Ω , 9.999K Ω , 99.99K Ω
Accuracy:	$\pm(1\% \text{ rdg.} + 5\text{dgt.})$
Resolution:	0.1 Ω , 0.001K Ω , 0.01K Ω

Capacitance

Range:	100 μ F, 1000 μ F
Accuracy:	$\pm(1\% \text{ rdg.} + 5\text{dgt.})$
Resolution:	0.1 μ F, 1 μ F

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Frequency

Range: 5.0Hz to 999.9Hz
 Accuracy: $\pm(0.5\% \text{ rdg.} + 5\text{dgt.})$
 Resolution: 0.1Hz

Low Pass Filter (LPF) AC Voltage

Range: 999.9V
 Accuracy: $\pm(2\% \text{ rdg.} + 9\text{dgt.})$
 Resolution: 0.1V

Low Pass Filter (LPF) AC Current

Range: 999.9A
 Accuracy: $\pm(2.5\% \text{ rdg.} + 9\text{dgt.})$
 Resolution: 0.1A

DC Power

Range: 999.9kVA, 2500kVA
 Accuracy: $\pm(2\% \text{ rdg.} + 20\text{dgt.})$
 Resolution: 0.1kVA, 1kVA

Flexible AC Current Probe (with optional R5065)

Range: 30.00A, 300.0A, 3000A
 Accuracy: $\pm(3\% \text{ rdg.} + 5\text{dgt.})$
 LPF: $\pm(4.0\% \text{ rdg.} + 9\text{dgt.})$
 Resolution: 0.01A, 0.1A, 1A

Temperature

Range: 40 to 752°F (-40 to 400°C)
 Accuracy: $\pm(1.0\% \text{ rdg.} + 60\text{dgt.})^\circ\text{F}$
 $\pm(1.0\% \text{ rdg.} + 30\text{dgt.})^\circ\text{C}$
 Resolution: 0.2°F, 0.1°C

General Specifications

Low Pass Filter (LPF): Yes
 Inrush Measurement: Yes
 True RMS: Yes
 Display: 9,999 count LCD display
 Display Hold: Yes
 Max/Min/Average Measurements: Yes
 Internal Memory: Yes (up to 999 data points)
 Peak Capturing: Yes
 Zero Push Button Adjustment: Yes
 High Voltage Alarm: Yes
 Diode Test: Yes
 Backlit Display: Yes

Overrange Indicator: Yes
 Magnetic Hanging Strap Compatible: Yes (R5900 sold separately)
 Continuity Check: Audible and visual indicators if resistance $\leq 30\Omega$
 Auto Power Off: Yes (after 15mins, off)
 Flexible Current Probe Compatible: Yes (R5065 sold separately)
 Power Supply: 2 x AA
 Low Battery Indicator: Yes
 Jaw Opening: 1.4" (35mm)
 Overvoltage Category: CAT. III 1500V, CAT. IV 600V
 Product Certifications: CE, ETL, ROHS, IP65
 Operating Temperature: 32 to 122°F (0 to 50°C)
 Storage Temperature: -4 to 140°F (-20 to 60°C)
 Dimensions: 11.6 x 2.9 x 2.0" (295 x 73 x 50mm)
 Weight: 19oz (540g)

Model	Description
R5075	Professional Clamp Meter, Solar, CAT. III 1500V
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
R1000	Safety Test Lead Set
CA-05A	Medium Soft Carrying Case
R5075-KIT	Solar Clamp Meter Kit with 18" Flexible Current Probe
R5075-NIST	Professional Clamp Meter, Solar, CAT. III 1500V & NIST