

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

#### Capacitance

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

*Continued...*

### TECHNICAL DATA

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