## AC Current Probe Model JM861



99 Washington Street Melrose, MA 02176 Fax 781-665-0780 TestEquipmentDepot.com



The Model JM861 is a high performance AC current probe for higher currents. Excellent transformation and low phase shift, plus a broad frequency response, permit accurate measurements of current and power. The high quality magnetic core and uniform windings provide for accurate measurements up to 3000AAC. The "squared" jaw permits multiple conductor or bus bar positioning. The Model JM861 provides excellent True RMS capabilities and reliable signal reproduction. The Model JM861 is designed for oscilloscopes, waveform displaying instruments and other instruments able to benefit from its frequency response. The Model JM861 encompasses a special circuit and three ranges to maximize frequency response performance.

## **Features**

- Oscilloscope current probe for applications in industrial and power environments
- Analyze, measure and accurately display distorted current waveforms and harmnics
- Nominal range: 30A, 300A, 3000A
- Output: 10mV/Aac, 1mVAac, 0.1mV/Aac
- Large jaw window for use on cables and bus bars
- · Direct BNC connection to scope

## **Applications**

- · Field testing
- Electrical utility
- HVAC
- · Industrial maintenance
- · Laboratory
- · Plant maintenance
- Power quality



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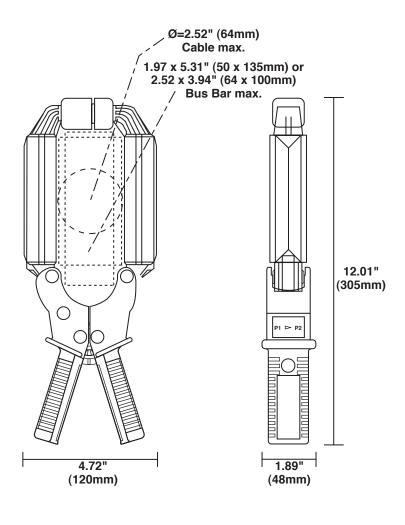
## **Specifications**

MODELS	JM861
ELECTRICAL	
Nominal Range	30A, 300A, 3000A
Measurement Range	90A, 900A, 900A Peak
Transformation Ratio	Voltage output
Output Signal	10mVac/Aac (0.3V @ 30A)
	1mVac/Aac (0.3V @ 300A)
	0.1mVac/Aac (0.3V @ 3000A)
Accuracy (30A Range)	
1.5A	2% of Reading ± 1mV
6A	2% of Reading ± 1mV
30A	2% of Reading ± 1mV
Phase Shift (30A Range)	20°
` 1.5A	20 10°
6A	5°
30A	3
Accuracy (300A Range) 15A	2% of Reading ± 0.5mV
60A	2% of Reading ± 0.5mV 2% of Reading ± 0.5mV
300A	2% of Reading ± 0.5mV 2% of Reading ± 0.5mV
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Phase Shift (300 A Range) 15A	3°
60A	
300A	10
Accuracy (3000A Range) 150A	2% of Reading ± 0.2mV
600A	$2\%$ of Reading $\pm 0.2mV$
3000A	$2\%$ of Reading $\pm 0.2mV$ 2% of Reading $\pm 0.2mV$
Phase Shift (3000A Range)	
150A	3°
600A	1.5°
3000A	1°
Overload	
Frequency Range Load Impedance	$10$ to soke, current defauling above skez for continuous use $1M\Omega$ , $47pF$
Working/Common	
Mode Voltage	600Vac
Output Termination	6.5 ft coaxial cable
MECHANICAL	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-13° to 176°F (-25° to 80°C)
Jaw Opening	3.54" (90mm)
Maximum Conductor Size	Cable: 2.52" Ø max (64mm); Bus bar: 1.97 x 5.31" (50 x 135mm); 2.52 x 3.94" (64 x 100mm)
Dimensions	4.72 x 12.40 x 1.89" (120 x 315 x 48mm)
Weight	2.65 lbs (120g)
Polycarbonate Material	Handles: 10% fiberglass charged polycarbonate UL94 VO; Jaws: ABS UL V2
SAFETY	
Electrical	EN61010-2-32
Electromagnetic	EN 50081-1 Class B; EN 50082-2 Electrostatic discharge IEC 1000-4-2;
Compatibility	Radiated field IEC 1000-4-3; Fast transients IEC 1000-4-4; Magnetic field at 50/60Hz IEC 1000-4-4
Double Insulation 🗆	
CE Mark	Yes
lete: Deference conditioner	100

Note: Reference conditions:

 $23^{\circ}C \pm 3^{\circ}K$ , 20 to 85% RH, 48 to 65Hz, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, load impedance  $\geq 1n\Omega$ , 47pF.







Lead with BNC: Insulated 6.5 ft (2m) coaxial cable with insulated BNC connector rated 600Vrms



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