

AC Current Probe Model JM840A



The Model JM840A 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 500A_{AC}/1000A_{AC}/1800A_{AC}. The “squared” jaw permits multiple conductor or bus bar positioning. The Model JM840A provides excellent True RMS capabilities and reliable signal reproduction.

The Model JM840A first works as a traditional current transformer providing current outputs (mA) over a broad range of transformation ratios. The Model JM840A is designed for use on DMMs, power and harmonic meters, recorders or instruments with AC current ranges.

Features

- Nominal range: 500A_{AC}, 1000A_{AC}, 1500A_{AC} (continuous cycle for the full temperature range)
- Transformation ratio: 500:1, 1000:1, 1500:1
- Output: 2mA, 1mA_{AC}/A_{AC} and 0.66mA_{AC}/A_{AC}
- Designed for use on DMMs, power and harmonic meters, recorders or instruments with AC current ranges

Applications

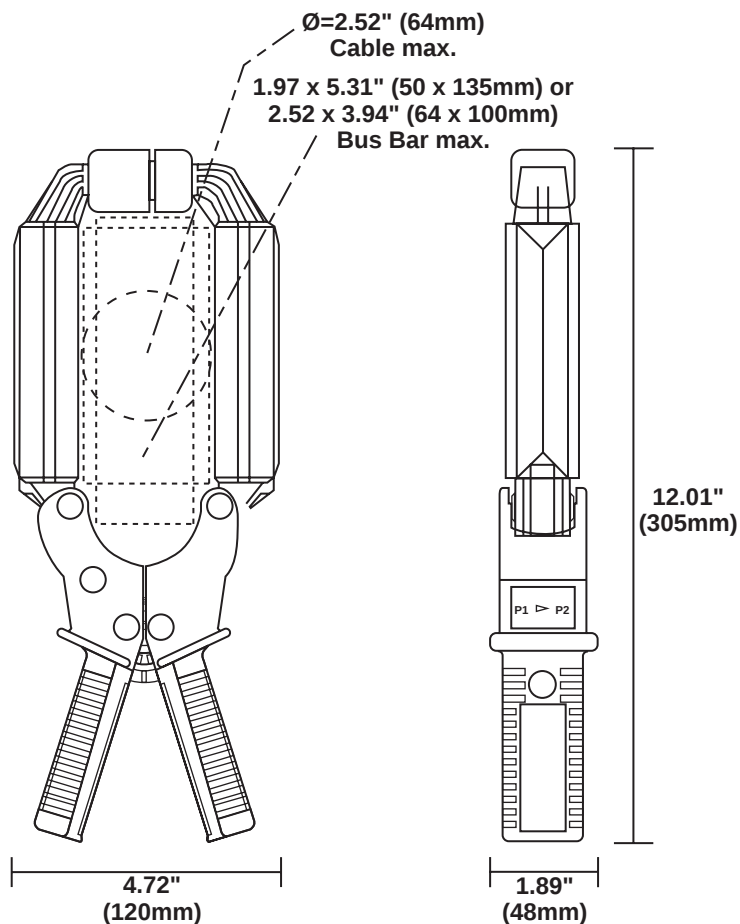
- Field testing
- Electrical utility
- HVAC
- Industrial maintenance
- Laboratory
- Plant maintenance

Specifications

MODELS	JM840A
ELECTRICAL	
Nominal Range	1500A
Measurement Range	1 to 1800A _{AC}
Transformation Ratio	500:1, 1000:1, 1500:1
Output Signal	2mA _{AC} /A _{AC} (1A @ 500A) 1mA _{AC} /A _{AC} (1A @ 1000A)
Accuracy (500A Range)	
25A	4% of Reading
100A	3% of Reading
500A	3% of Reading
Phase Shift (500A Range)	
25A	4°
100A	3.5°
500A	2° –
Accuracy (1000A Range)	
50A	3% of Reading
200A	2% of Reading
1000A	1% of Reading
Phase Shift (1000A Range)	
50A	3°
200A	1.5°
3000A	1°
Accuracy (1500A Range)	
75A	1.5% of Reading
300A	0.75% of Reading
1500A	0.5% of Reading
Phase Shift (1500A Range)	
75A	1.5°
300A	0.75°
1500A	0.5°
Overload	700A for 10 min (500A); 1400A for 10 min (1000A); 1800A for 10 min (1500A)
Frequency Range	30 to 1500Hz; current derating above 1500Hz for continuous use
Load Impedance	≤5Ω (500A, 1000A, 1500A)
Working/Common Mode Voltage	600V _{AC}
Output Termination	Jack
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 (1200g)
Polycarbonate Material	Handles: 10% fiberglass charged polycarbonate UL94 V0; Jaws: ABS UL V2
SAFETY	
Electrical	EN61010-2-32
Electromagnetic Compatibility	EN 50081-1 Class B; EN 50082-2 Electrostatic discharge IEC 100-4-2; Radiated field IEC 1000-4-3; Fast transients IEC 1000-4-4; Magnetic field at 50/60Hz IEC 1000-4-4
CE Mark	Yes

Note: Reference conditions:

23°C ± 3°K, 20 to 85% RH, 45 to 65Hz, external magnetic field < 40A/m, no DC component, no external current carrying conductor, test sample centered.



Jacks:
Two standard
safety banana
jacks (4mm)

ORDERING INFORMATION

CATALOG NO.

AC Current Probe Model JM840A (Jack – 2mA/A – 500A; 1mA/A – 1000A; .66mA/A – 1500A max)	Cat. #2110.85
Includes a user manual	
Accessories (Optional)	
Pair, safety current leads (5 ft retractable, rated 250V)	Cat. #100.319
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45
Leads, set of 2, 5 ft safety (1000V)	Cat. #2111.29
Banana/BNC Connector XF-SS (4mm banana plug)	Cat. #2111.32
Leads No. 211 for probe 5 A series (5 ft, rated 250V)	Cat. #2950.06

Contact Us

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