



OVERVIEW

PRODUCT HIGHLIGHTS: The RC-JM830A is a high performance AC current probe designed for AC current measurements up to 2400 Amps. Excellent transformation and low phase shift, plus a broad frequency response, permit accurate measurements of current and power. The “Squared” jaw permits multiple conductor or bus bar positioning. The RC-JM830A works as a traditional current transformer with a transformation ratio of 3000:1. Radian Research has terminated the RC-JM830A with a seven-pin Redel connector to allow for direct connection to a Radian Research RD reference standard. The RC-JM830A provides for true RMS measurement capabilities when used in conjunction with a Radian Research RD reference standard with RMS measurement capability.

SPECIFICATIONS

MODEL RC-JM830A	
Electrical	
Measurement Range	1A to 2400A
Transformation Ratio	3000:1
Output Signal	0.333mA/A (800mA @ 2400A)
Accuracy	150A 600A 2400A
	1.5% of Reading 0.75% of Reading 0.5% of Reading
Phase Shift	150A 600A 2400A
	1.5° 0.75° 0.5°
Overload	>2400A Continuous
Frequency Range	30Hz to 5kHz
Load Impedance	≤ 5 ohms
Working/Common Mode Voltage	600VAC
Output Termination	10 ft. Lead w/7 pin Redel Connector
Mechanical	
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-13°F to 176°F (-25°C to 80°C)
Jaw Opening	3.54" (90mm) max
Maximum Conductor Size	Cable: 2.52" dia. 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" (120mm x 315mm x 48mm)
Weight	2.65 lbs (1200g)
Body Material	Handles: 10% fiberglass charged polycarbonate UL94 V0; Jaws: ABS UL V2

The RC-JM830A is a JM830A AC current probe manufactured by AEMC® Instruments then modified by Radian Research, Inc.

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