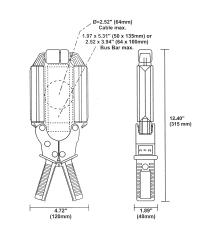
Radian Research, Inc.

RC-JM830A AC Current Probe





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	1.5% of Reading
	600A	0.75% of Reading
	2400A	0.5% of Reading
Phase Shift	150A	1.5°
	600A	0.75°
	2400A	0.5°
Overload		>2400A Continuous
Frequency Range		30Hz to 5kHz
Load Impedance		≤ 5 ohms
Working/Common Mod	le 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 S	ize	Cable: 2.52" dia. Max. (64mm);
		Bus Bar:1.97" x 5.31" (50 x 135mm); 2.52" x 3.94" (64 x100mm)
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.

Radian Research reserves the right to change any information without notice.

02-09