



OVERVIEW

PRODUCT HIGHLIGHTS: The RC-HV2000A is a high voltage AC current probe comprised of a high voltage current sensor, with a fiber optic link to an electronic readout module, and Radian Research's RC-CTA1, voltage to current converter. The high voltage sensor is traditionally mounted on a hotstick (optional) and allows for measurements on conductors where standard clamp-on probes may not be used. The RC-CTA1 must be used to insure the proper input to Radian Research RD reference standards. Radian Research has terminated the RC-CTA1 with a seven-pin Redel connector to allow for direct connection to RD reference standards. The RC-HV2000A with RC-CTA1 provides for true RMS measurement capabilities when used in conjunction with a Radian Research RD reference standard with RMS measurement capability. The RC-CTA1's contribution to the overall accuracy specification of the RC-HV2000A is negligible.

SPECIFICATIONS

MODEL RC-HV2000A	
Electrical	
Measurement Range	0 to 2000A True RMS
Accuracy	± 1.5%
Display Resolution	0 to 200A: 0.1A 200 to 2000A: 1.0A
Analog Output Signal	1.0mV _{RMS} /A
Output Impedance	6000 Ohms Minimum
Frequency	50 Hz (47 to 53 Hz)
(must specify when ordering)	60 Hz (57 to 63 Hz)
Frequency Response	3000 Hz
Working Voltage	150kV Maximum
Output Termination	BNC with applicable cable & adapter
Battery & Battery Life	9V Alkaline, 6 to 8 hrs. of continuous use
Battery Indication	Within LCD Display
Mechanical	
LCD Display	3 ½ Digit
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Housing	Shock & Water Resistant Molded Urethane
Weight	5.3 lbs. (2.40 kg)
Jaw Opening	1.89" (48.5mm)
Hotstick Mounting	Universal Chuck Adapter
MODEL RC-CTA1	
Electrical	
Input Measurement Range	10mVrms to 3.0Vrms
Accuracy	<0.05%
Transconductance Ratio	1mV:1A
Phase Shift @ 45 to 65Hz	<0.01°
Frequency Range	45Hz to 5KHz
Output Termination	7 Pin Redel Connector
Mechanical	
Operating/Storage Temperature	-4°F to +158°F (-20°C to +70°C)
Relative Humidity	0% to 90% @ 50°C
Input Termination	4mm Banana Sockets @ 0.75" Spacing
Output Termination	7 Pin Redel Connector
Dimensions	2.26" x 1.61" x 0.75" (57.4mm x 40.9mm x 19.1mm)
Body Material	ABS

The RC-HV2000A is a 8-015 Amp Litewire current probe manufactured by SensorLink® Corporation

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