

## PRECISION FLEXIBLE CURRENT TRANSFORMER (Rogowski Coil)

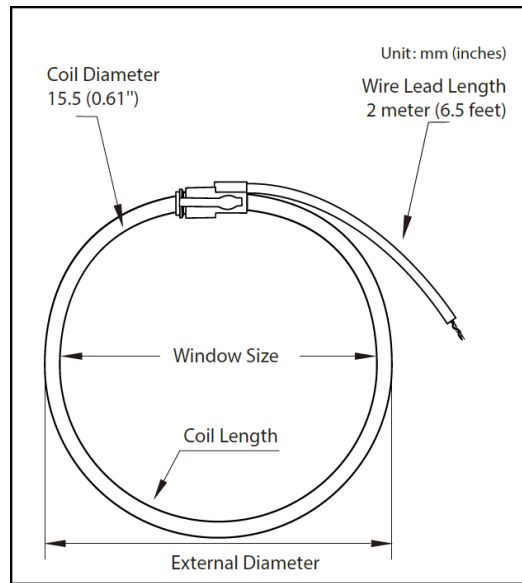
### DESCRIPTION:

The RC-400 is a flexible, air-core current sensor which operates on the Rogowski Coil principle. The RC-400 is designed and approved to be installed on insulated and/or bare conductors (bus bars).

The unique shielding system and precision windings minimize the positioning error and practically eliminate the influence of external magnetic fields.

The RC-400 can be used directly with the WattsOn-Mark II Precision Energy Meters without an integrator or additional power supply. This offers accurate measurements in large power systems where conventional iron-core CTs may be hard to install.

Specifications	
<b>Output</b>	100mV/1000A (50Hz) 120mV/1000A (60Hz)
<b>Output Waveform</b>	AC voltage proportional to derivative of input current. Requires integrator for measurement of AC current. (built into WattsOn-Mark II)
<b>Outer Sheath</b>	Thermoplastic polyurethane UL94-V0
<b>Leads</b>	Shielded pair AWG26, 2 m (6.5')
<b>Insulation Class</b>	1000V; 50-60 Hz, Cat III 600V, 50-60Hz, CAT IV
<b>Test voltage</b>	7400 Vrms for 1 min
<b>Max current</b>	50,000A @50Hz
<b>Certification</b>	UL Recognized (Canada/US) #E359521
Accuracy	
<b>Ratio Error</b>	< 0.5% of reading
<b>Phase Shift Error</b>	< 0.3%
<b>Linearity</b>	0.1%
<b>Positioning Error</b>	With a 15 mm wire: One loop: < 1% of reading Two loops: < 0.3% of reading
<b>Note:</b>	Accuracy stated from 50A to 50 kA 60 Hz input (output 120 mV/1kA)



Model	Maximum Rated Current (60Hz)	Output @1000A (one loop)	Window Size (round)	Coil Length/ Outside Dia.	Leads Color (X1-X2)
RC-400	50 kA	120mV @ 60Hz 100mV @ 50Hz	4.1" (106 mm)	15.75" (400mm) 0.61" (15.5 mm)	white-brown

Current Sensors are limited power / voltage devices (fractional VA / less than 8Vac).