

PRECISION FLEXIBLE CURRENT TRANSFORMER (Rogowski Coil)

DESCRIPTION:

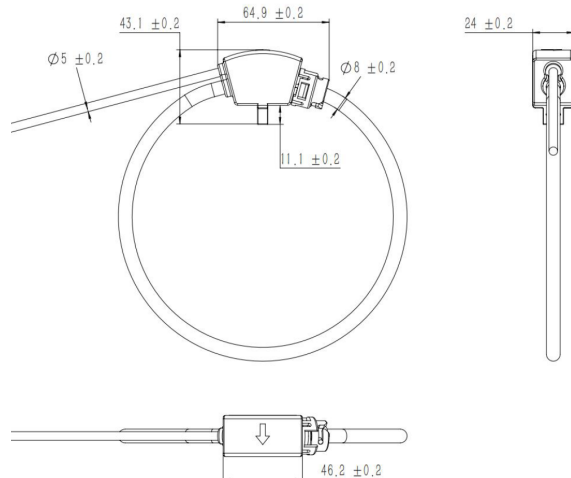
The ULNRC-600 is a flexible, air-core current sensor which operates on the Rogowski Coil principle. The ULNRC-600 is designed and approved to be installed on insulated and/or bare conductors (bus bars). An optional bus bar mounting bracket is available.

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

The ULNRC-600 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.



The flexible ULNRC-600 may be wrapped around the primary conductor multiple times for tighter installation, higher input sensitivity and accuracy.



Specifications	
Input Range	0.1A—100,000A (AC)
Coil Length	600mm (23.6")
Inside Diameter	190mm (7.5")
Coil Thickness	8.0 mm (0.32")
Output	100mV/1000A (50Hz) 120mV/1000A (60Hz) AC mV (di/dt). Requires integrator for measurement of AC current. (built into WattsOn-Mark II)
Outer Sheath	Thermoplastic UL94-V0
Leads	Shielded pair AWG22, 15 m (49ft) AWM style 2586, 600V, 105°C X1 / X2 = Blue / White
Insulation Class	1000V; 50-60 Hz, Cat III 600V, 50-60Hz, CAT IV Pollution Degree 2
Test voltage	7400 Vrms for 1 min
Certifications	UL Listed 61010-1, #E539916
Operating Temp	-40°C to 80°C
Accuracy	
Ratio Error	0.5 Class per IEC 61869-2
Linearity	0.2%
Positioning Error	With a 15 mm wire: One loop: < 1% of reading Two loops: < 0.3% of reading
Accuracy stated from 50A to 50 kA	

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