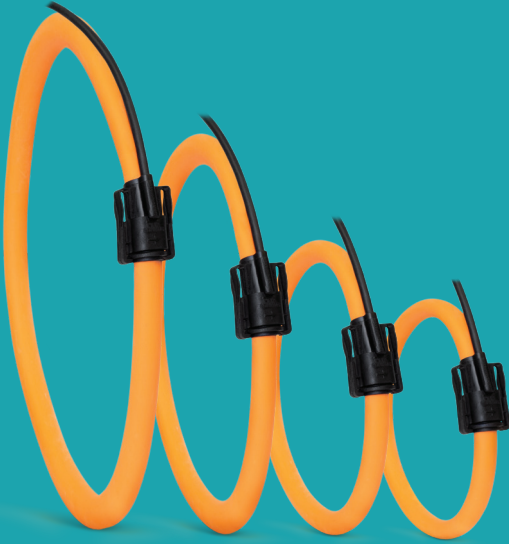


AcuCT Flex Series

Rogowski Coil CT Datasheet



Accuenergy's AcuCT Flex Series Rogowski coil current transformers are engineered for high-accuracy measurements of AC current. Ideal for precision power metering, PQ analysis, or general energy monitoring applications, the versatile AcuCT Flex is essential when space is limited and rigid-body current transformers won't fit. The rope-like form factor can easily wrap around irregularly shaped conductors in crowded panels or switchgear.

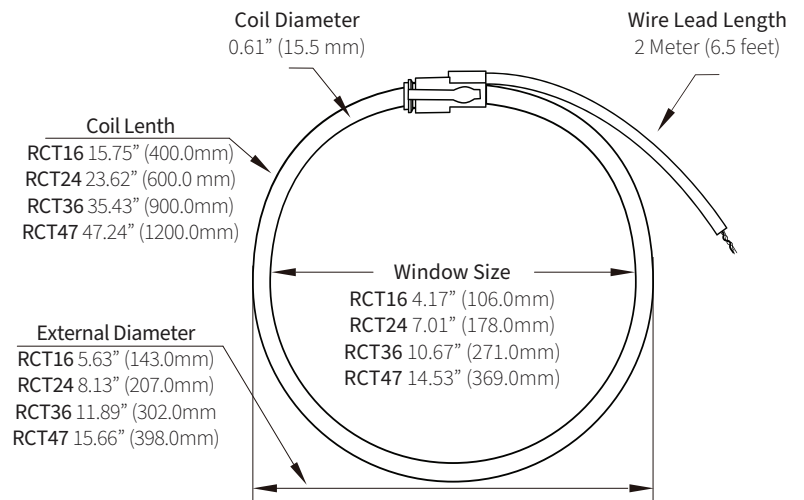
Features

- High accuracy measurements for rigorous applications
- Broad frequency range is well-suited for measuring harmonics & power quality
- Current input range: 5A – 50,000A AC
- Available in four, standard lengths: 16", 24", 36" or 47"
- Does not require an external power supply or integrator when used with Accuenergy meters
- Fully customize output ratio, input ratio, and length to adapt to any project

Specifications

RATED CURRENT	
Current Range	5A-50,000A
Accuracy	0.5% - IEEE C57.13 class 0.6
MECHANICAL/ENVIRONMENTAL	
Form Factor	Flexible Rope Like CT
Window Size	RCT16 - 106.0mm (4.17") RCT24 - 178.0mm (7.01") RCT36 - 271.0mm (10.67") RCT47 - 369.0mm (14.53")
External Diameter	RCT16 - 143.0mm (5.63") RCT24 - 207.0mm (8.13") RCT36 - 302.0mm (11.89") RCT47 - 398.0mm (15.66")
Length of Coil	RCT16 - 400.0mm (15.75") RCT24 - 600.0mm (23.62") RCT36 - 900.0mm (35.43") RCT47 - 1200.0mm (47.24")
Case Material	Orange thermoplastic rubber UL 94V-0 rated flame retardant
Lead Wires	1000V UL Style 20940, 26AWG
Operating Temperature	-20°C to 70°C / -4°F to 158°F
Temperature Drift	+/- 0.07% per °C
Operating Humidity	Non-condensing, 0 to 95% RH
Installation Conditions	IP61
ELECTRICAL	
Wire Polarity	White=Positive, Brown=Negative, Bare=Shield
Phase Orientation	Arrow Points Towards Load
Frequency Range	45Hz - 65Hz
Frequency Response	10Hz - 20KHz
SAFETY/COMPLIANCE	
Working Voltage	1000V CAT III, 600V CAT IV
Dielectric Strength	7400Vac @ 50/60Hz for 1 minute
Certifications	CE, RoHS, cURus (E359521)

Dimensions



mV/kA Output Standard & Custom Output

Multiple output ratio options are available such as 100mV/1000A, 40mV/1000A, 25mV/1000A, 10mV/1000A.

Model ¹	Output /1000A @60Hz	Output /1000A @50Hz	Calibrated Range with "RCT" input devices ²
RCTxx-200	600mV	500mV	1A-240A
RCTxx-500	240mV	200mV	2.5A-600A
RCTxx-1000	120mV	100mV	5A-1200A
RCTxx-2500	48mV	40mV	12.5A-3000A
RCTxx-5000	24mV	20mV	25A-6000A
RCTxx-10000	12mV	10mV	50A-12000A
RCTxx-50000	2.4mV	2mV	250A-60000A
RCTxx-Custom	Output any ratio of signal per your requirement. Contact Us at 1-877-721-8908 or email marketing@accuenergy.com		

¹"xx" denotes length of current transformer coil.

²When used with Accuenergy meters. Performance and range may vary when used with non-Accuenergy power meters or devices.



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Revision Date: Sep 2021 Version: 1.0.0
 Specs Subject To Change Without Notice.

Ordering Information

	Model	Current Range	Lead Length
Ordering Number	-	:	
Ordering Example	RCT24	- 5000	: 25m
	RCT16	1000: 5A-1200A	Blank - 2 Meters/6.5ft
	RCT24	2500: 12.A-3000A	5m - 5 Meters/16.4ft
	RCT36	5000: 25A-6000A	10m - Meters/32.8ft
	RCT47	10000: 50A-12000A	25m - 25 Meters/82ft
		50000: 250A-50000A	50m - 50 Meters/164ft