

# 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.

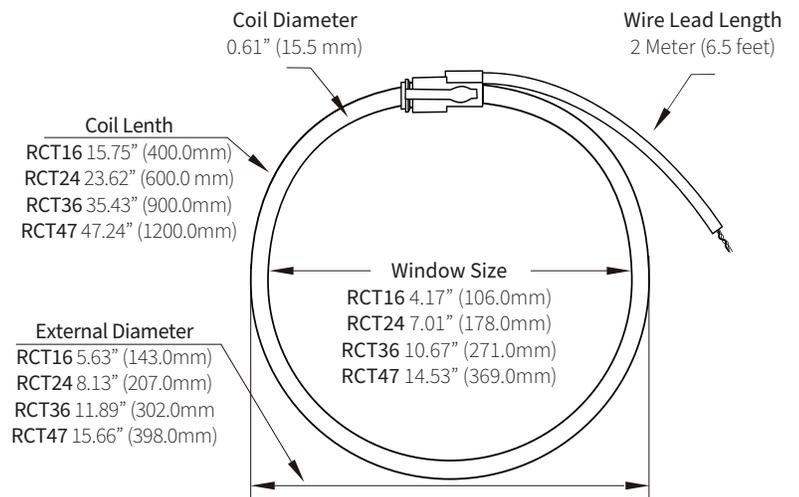
## Features

- 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")<br>RCT24 - 178.0mm (7.01")<br>RCT36 - 271.0mm (10.67")<br>RCT47 - 369.0mm (14.53")    |
| External Diameter        | RCT16 - 143.0mm (5.63")<br>RCT24 - 207.0mm (8.13")<br>RCT36 - 302.0mm (11.89")<br>RCT47 - 398.0mm (15.66")    |
| Length of Coil           | RCT16 - 400.0mm (15.75")<br>RCT24 - 600.0mm (23.62")<br>RCT36 - 900.0mm (35.43")<br>RCT47 - 1200.0mm (47.24") |
| Case Material            | Orange thermoplastic rubber<br>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 <sup>1</sup> | Output /1000A @60Hz | Output /1000A @50Hz | Calibrated Range with "RCT" input devices <sup>2</sup> |
|--------------------|---------------------|---------------------|--|
| 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       |                     |                     |  |

<sup>1</sup>"xx" denotes length of current transformer coil.

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



### EMF Services Pty Ltd

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## Ordering Information

|                         | Model | Current Range      | Lead Length            |
|-------------------------|-------|--------------------|------------------------|
| <b>Ordering Number</b>  | -     | :                  |                        |
| <b>Ordering Example</b> | 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  |