RōCoil™ Flexible CTs

The DENT RōCoil™ Current Sensors have been designed for accurate non-intrusive measurement of AC current, pulsed DC or distorted waveforms where conventional rigid core sensors are unsuitable. This type of sensor may be used to measure AC current over a wide dynamic range and from 20 Hz to 5 kHz. Note: Some applications may require use of integrator/amplifier. See also RōCoil mV™.

**KEY SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Four Lengths Available</td>
<td>40 cm (16&quot;), 60 cm (24&quot;), 90 cm (35&quot;), 120 cm (47&quot;)</td>
</tr>
<tr>
<td>Window Sizes Available</td>
<td>11.5 cm (4.5&quot;), 17.9 cm (7.0&quot;), 27.5 cm (10.8&quot;), 37 cm (14.6&quot;)</td>
</tr>
<tr>
<td>Output Signal (di/dt)</td>
<td>131 mVAC/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz</td>
</tr>
<tr>
<td>Current Range</td>
<td>5 - 5000A AC*</td>
</tr>
<tr>
<td>Accuracy (typical)</td>
<td>&lt; 0.6%**</td>
</tr>
</tbody>
</table>

**ELECTRICAL**

All accuracies specified at 20°C (±2°C) with RōCoil™ centered on conductor.

- Output Signal: 131 mV/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz
- Wire Colors: White = (+) positive, Brown = (-) negative, Bare wire = shield
- Phasing: Arrow Points Towards Load
- Phase Shift: < 0.2° at 50/60 Hz
- Frequency Range: 20 Hz to 5 kHz*
- Useful Current Range: 5 - 5000A AC*
- Linearity: ± 0.2%
- Temperature Sensitivity: 0.07% per °C

**MECHANICAL**

- Coil Materials: Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
- Coupling Materials: PA6 UL 94 V-0 rated
- Shielding: 100% transducer, 100% output lead
- Working Temp: -20 °C to +70 °C (–4° to +158 °F)

**SAFETY & CERTIFICATIONS**

- Working Voltage: 1000 Vrms maximum
- Dielectric Strength: 7400 VAC around coil 1000 VAC rated leads
- Certifications: Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010 TAA Compliant
- **Safety Certifications**: Certified to IEC 61010-1, UL 61010-1, CE Marked
- **Safety Standards**: CE, TAA, FM

* Depending on meter compatibility, RōCoil CTs Ul Rated to 100KA AC.
** Installed using best practices with conductor centered in the CT window and ensure any external conductors are a minimum distance of > 2X the diameter of the RōCoil. Accuracy below 20A rated at 1.5% +/- 0.5A when used with DENT ELITEpro/PowrScout meters. RōCoil have been 100% verified to meet the CS7.13-2008 Class 1.2 Standard.

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>R16</td>
<td>40 cm (16&quot;)</td>
</tr>
<tr>
<td>R24</td>
<td>60 cm (24&quot;)</td>
</tr>
<tr>
<td>R36</td>
<td>90 cm (35&quot;)</td>
</tr>
<tr>
<td>R47</td>
<td>120 cm (47&quot;)</td>
</tr>
</tbody>
</table>

**RōCoil™ PART NUMBERS**

- 3 M Leads: CT-R16-A4-U, CT-R24-A4-U, CT-R36-A4-U
- 7 M Leads: CT-R16-A4-U-7M, CT-R24-A4-U-7M, CT-R36-A4-U-7M
- 15 M Leads*: CT-R16-A4-U-15M, CT-R24-A4-U-15M, CT-R36-A4-U-15M

*Special order. Contact factory for details.

**CONTACT US**

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