

# RōCoil™

## Flexible CTs



The DENT 72" RōCoil™ Current Transformer has been designed for accurate non-intrusive measurement of AC current, pulsed DC or distorted waveforms. This type of sensor may be used to measure AC current over a wide dynamic range and from 40 Hz to 5 kHz. Note: The RōCoil™ may require use of integrator/amplifier. See RōCoil mV.

Other lengths available. See A4 Series RōCoils.

### KEY SPECIFICATIONS

Length	183 cm (72")
Window Size	58 cm (23")
Output Signal ( $di/dt$ )	131 mVAC/1000A @ 60 Hz 110 mVAC/1000A @ 50 Hz
Current Range	5 - 5000A AC*
Accuracy	< 1%**

### ELECTRICAL

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

Output Signal	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz
Wire Colors	White = (+) positive Brown = (-) negative Bare wire = shield
Phasing	Arrow Points Towards Load
Phase Shift	< 1° at 50/60 Hz
Frequency Range	40 Hz to 5 kHz
Useful Current Range	5 - 5000A AC*
Linearity	± 0.2%
Conductor Position Sensitivity	± 2% maximum
Influence of External Field	± 1.5% maximum
Temperature Sensitivity	0.07% per °C

### MECHANICAL

Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Coupling Materials	Polypropylene UL 94 V-0 rated
Shielding	85% transducer, 100% output lead
Working Temp	-20 °C to +80 °C (-4° to +176 °F)

### SAFETY

Working Voltage	1000 Vrms maximum
Dielectric Strength	7400 VAC around coil 1000 VAC rated leads

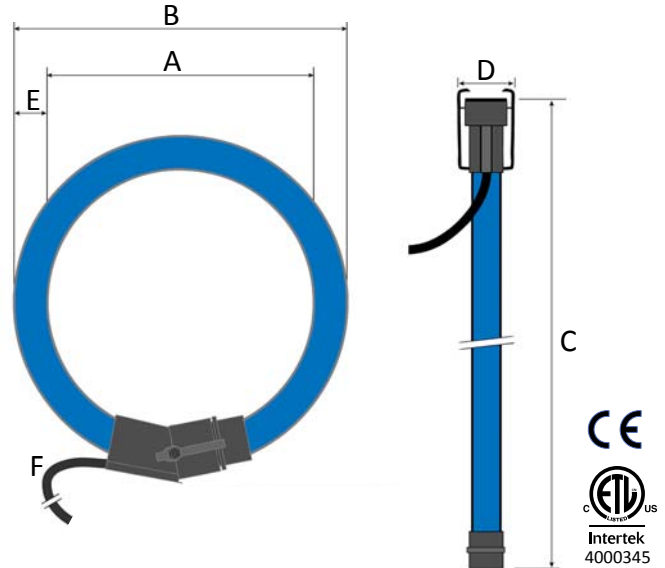
Certifications



Conforms to UL STD 61010-1  
Certified to CAN/CSA STD C22.2  
No. 61010

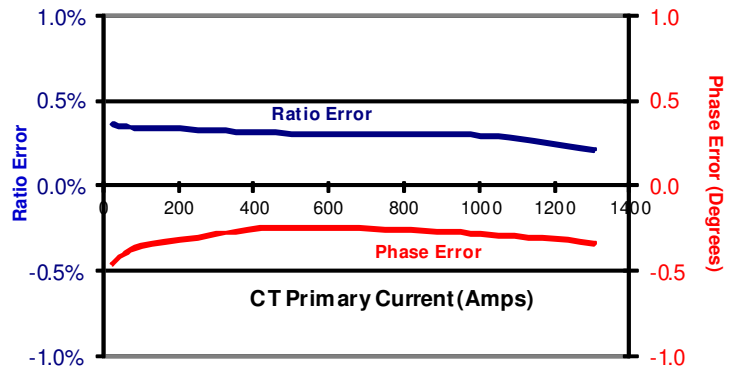
\*Depending on meter compatibility. RōCoil CTs ETL Rated to 6000A AC. ELITEpro SP (v. .212 or newer firmware) and PowerScout™ 3 (v. 3.16 or newer firmware) rated for 5-5000A. Meters with earlier firmware versions rated from 50-5000A AC. PowerScout™ 18 rated for 50-3500A.

\*\*Accuracy below 20A rated approximately at 1.5% +/- 0.5A.



### DIMENSIONS

	R72
	183cm (72")
<b>A</b> Window Size	56 cm (22")
<b>B</b> Transformer Coil O.D.	58 cm (23")
<b>C</b> Transformer Length	180 cm (72")
<b>D</b> Locking Connector O.D.	3.6 cm (1.4")
<b>E</b> Transformer Coil Diameter	1.5 cm (0.6")
<b>F</b> Wire Lead Total Length	2 m (80")



CT testing performed with 16" RōCoil. Conductor used filled 90% of RōCoil window.

### 72" RōCoil™ PART NUMBER

183 cm (72") RōCoil™ CT-R72-1310

### CONTACT US

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