

# RōCoil™

## Flexible CTs

PRELIMINARY

The DENT RōCoil™ Current Transformers have 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 also RōCoil mV™.

### KEY SPECIFICATIONS

Three Lengths	40 cm (16"), 60 cm (24"), 90 cm (36")
Window Size	13 cm (5"), 19 cm (7"), 26 cm (10")
Output Signal ( $di/dt$ )	131 mVAC/1000A @ 60 Hz 110 mVAC/1000A @ 50 Hz
Current Range	< 25-20,000A*
Accuracy	< 1%

\*Depending on meter compatibility. PowerScout™ rated for 0-3500A.

### 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	Brown = (+) positive White = (-) 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	< 25-3500A (PowerScout™) < 25-20,000A*
Linearity	± 0.2%
Conductor Position Sensitivity	± 2% maximum
Influence of External Field	± 1.5% maximum
Temperature Sensitivity	0.07% per °C

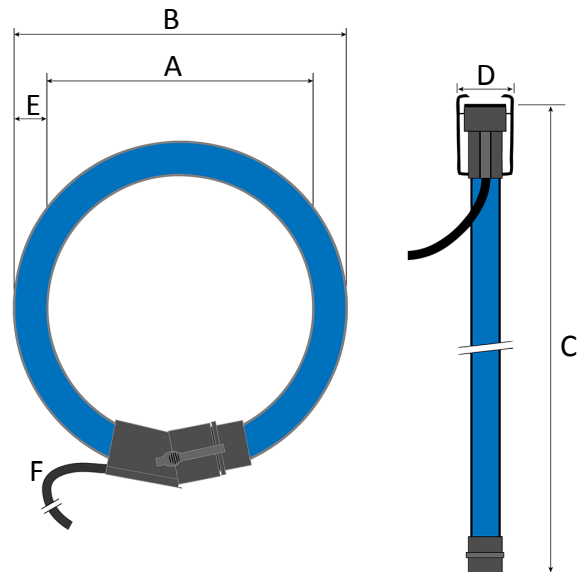
\*Depending on meter compatibility. PowerScout™ rated for 0-3500A.

### MECHANICAL

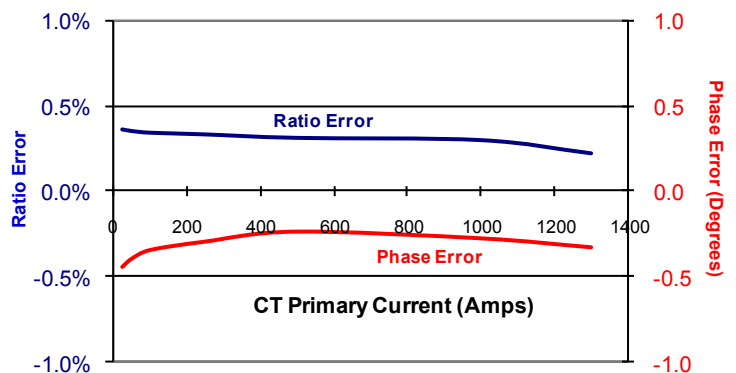
Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Coupling Materials	Black thermoplastic rubber and Polypropylene UL 94 V-0 rated
Shielding	85% transducer, 100% output lead
Working Temp	-20 °C to +80 °C (-4° to +176 °F)

### SAFETY

Working Voltage	1000 Vrms maximum
Dielectric Strength	7400 VAC around coil 1000 VAC rated leads
Overvoltage Category	Installation Category III (IEC 1010-1)



DIMENSIONS		R16 40 cm (16")	R24 60 cm (24")	R36 90 cm (36")
<b>A</b>	Window Size	13 cm (5")	19 cm (7")	26 cm (10")
<b>B</b>	Transformer Coil O.D.	15 cm (6")	21 cm (8")	29 cm (11")
<b>C</b>	Transformer Length	40 cm (16")	60 cm (24")	90 cm (36")
<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")		



### RōCoil™ PART NUMBERS

40 cm (16") RōCoil™	CT-R16-1310
60 cm (24") RōCoil™	CT-R24-1310
90 cm (36") RōCoil™	CT-R36-1310

### CONTACT US

Authorized Distributor  
**Optimum Energy Products Ltd.**  
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